

**ONKYO®**  
IMAGINATIVE SIGHT & SOUND



**YOUR HOME ENTERTAINMENT AWAITS**

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**Audio/Video Products  
2002**



When you imagine your ultimate home theater, what do you see? A digital receiver at the center that has the latest features? No more worries about it becoming obsolete? Well, you're looking at the TX-DS989. How did we do it? When we designed this receiver, we paid attention to what you wanted and delivered on our promise of a "future proof" digital receiver. With the optional UPG-2 package, you get the latest formats for home theater—THX Ultra2, DTS 96/24, and Dolby Digital EX—for even more realistically enveloping sound delivered by the highest quality parts available. A lot of hard work goes into making movies and music. This is how you can show your appreciation. The TX-DS989—designed to meet your needs and specifications.

- 7 x 160 W/Ch, Continuous, 6  $\Omega$ , 1 kHz, DIN
- THX Ultra Certified
- 7.1 Channel Amplifier
- THX Surround EX, Dolby Pro Logic II, DTS-ES Discrete/Matrix 6.1, DTS Neo:6, MPEG
- 192 kHz/24-Bit AKM DACs for All Channels
- Ready for HDTV, Progressive-Scan DVD and DVD-Audio/SACD
- 3 Wideband Component-Video Inputs/1 Output
- 9 Digital Inputs (3 optical/5 coaxial/1 AC-3RF) and 2 Outputs
- Zone 2 Multiroom/Multisource Capability
- RS-232 Terminal & Upgradable Flash Memory
- Home Network Upgradable
- Motorized Control Door



*We are proud to announce the optional UPG-2 package for the TX-DS989. You'll get THX Ultra2, DTS 96/24 and Dolby Digital EX to take your movies and music to unmatched levels of visual and sonic enjoyment.*



# TX-DS989 **Integra**

THX® ULTRA 7.1-CHANNEL  
DIGITAL RECEIVER WITH  
THX® SURROUND EX™



THX SURROUND EX™



MPEG Multichannel

WAT WIDE RANGE AMP TECHNOLOGY

MR MULTI ZONE

CD S

SILVER BLACK





### ***If You Don't Have a Good Receiver, You Don't Have Good Sound***

Everything is connected to it. Every signal source is routed through it. Its sound quality is an integral part of everything you play through it. Bottom line: if you compromise on your receiver, you've compromised on your whole system—because your speakers will only sound as good as the signal supplied to them.

Whether you're watching a major Hollywood production, listening to the latest DVD-Audio disc, or playing one of your favorite CDs, your entertainment system

*sound on program peaks* Almost all amplifier designs, in an attempt to improve their frequency bandwidth and lower distortion, use large amounts of negative feedback (NFB).

Not Onkyo. Although NFB is the most cost-effective way to reduce noise at lower frequencies, there's a sonic price to pay: large amounts of NFB severely inhibit an amplifier's transient response—the ability to respond to large signal gains (explosions and musical finales)—and actually distorts sound at high frequencies.

soundtracks or musical performances, you wind up with unpleasant noise reproduction. While most amplifiers make great efforts to protect the ground potential from external factors, many fail to look internally for one of the largest causes of noise in the ground potential—the open-loop circuit.

In an open-loop circuit design, all circuits are connected to the power supply via one loop. Inevitably, due to transients and other energy flow factors, a small amount of noise can build in each circuit. Individually, the amount of noise in one circuit is minimal. Collectively, however, if they all share the same loop (like many amplifiers do), the noise multiplies exponentially.

# Premium Digital Surround Receivers— The Right Start for Your Home Theater

deserves the finest receiver you can afford. And nothing brings home the magic of movies and music like Onkyo receivers.

Sure, their look, feel and solid construction are impressive. But their best attribute is their sonic performance. With prodigious amounts of sheer, clean, high-current power, backed by over 50 years of audio-engineering excellence, Onkyo receivers have what it takes to do justice to the tremendous dynamics of today's movie soundtracks and high-resolution digital music sources.

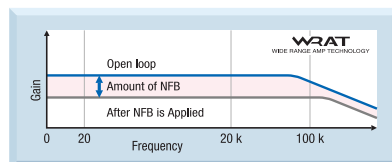
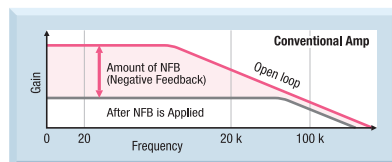
***The Technology that Sets Us Apart from Others*** Imagine turning up the volume and filling your entertainment room with noise-free, distortion-free, impressively powerful, true-to-life sound. That's the benefit you get with Onkyo's Wide Range

**WRAT** Amplifier Technology (WRAT). Originally developed for our most expensive high-end amplifiers to handle the sonic demands of today's digital age, you'll now find WRAT even in our lowest-priced AV receivers.

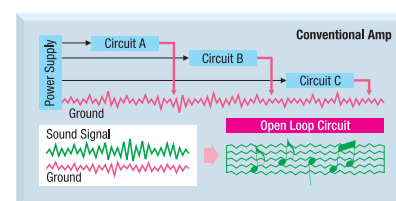
***3 Significant Benefits You Get from WRAT*** ***Uncommonly Low Negative-Feedback Design—So you'll enjoy cleaner***

That's why our engineers use one of the most advanced topologies found in high-end amplifiers—a low negative-feedback design, with audiophile-grade, close-tolerance components at critical points in the signal path to achieve a frequency response out to 100 kHz.

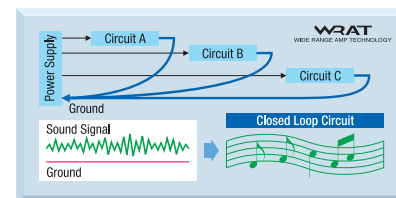
This design is more expensive, but it means you'll enjoy the full sonic benefits from such high-resolution formats as DVD-Audio and Super-Audio CD, and get better delivery of momentary power peaks from all software, including your regular CDs and DVDs.



***Closed Ground-Loop Circuits—So you'll enjoy greater maximum volume without distortion*** If an amplifier's ground potential (voltage) fluctuates during playback of movie

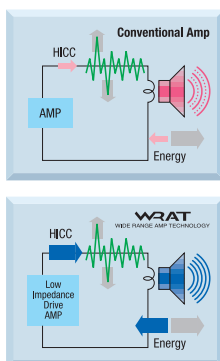


Onkyo's sophisticated closed-circuit design allows each circuit to go and return directly to the power supply. This cancels any individual circuit noise, and keeps the ground potential free of distortion—so you'll hear a new subtlety in low-level passages, and enjoy a new clarity in dialogue even during scenes with lots of special effects.



***High Instantaneous-Current Capability—So you'll enjoy film soundtracks with greater impact*** Audio signals are extremely complex, and consist of a wide range of frequencies and amplitude levels. After the amplifier outputs such a signal to a speaker, the speaker itself accumulates energy. When the speaker reflexes, it sends energy back to the amplifier. The amplifier must immediately be able to supply a large amount of high-current to cancel the speaker's reflex energy, and instantaneously send out the next signal. The same high current is also necessary to handle speaker-impedance fluctuations, which can on occasion, force an amplifier to provide four to six times its usual current load.

As you might expect from a company that has earned its position as one of the most respected names in the audio industry by building the world's finest amplifiers, the instantaneous current capability of even Onkyo's least expensive WRAT receivers is far better than that of conventional units with two to three times the listed power rating. This is because the competing designs commonly have less than half the current capability. The result? The high-current capability incorporated into all Onkyo receivers means your receiver can handle difficult speaker loads, and deliver movie soundtracks with theater-like dynamics and clarity—so you'll get the same exciting sonic *slam* that you experienced in the theater.



**HDTV Ready** Even if you're not yet ready to invest in HDTV (High Definition Television), you want the best picture possible. That's why our top four receivers offer professional-quality 50 MHz bandwidth component-video switching—rare for Home Theater components. It delivers the highest quality, unaltered, wide-bandwidth video-signal transfer you can get from TVs, HDTV & HDTV set-top boxes, progressive-scan DVD players, DTV decoders, DSS, or Digital VCRs.

**Ease of Use** In spite of their sophistication and versatility, Onkyo receivers are surprisingly easy to operate. Setup is swift, straightforward and simple. Each receiver has automatic digital/analog signal detection and switching to take the guesswork out of what format to choose or input to use. And with the exception of the TX-SR500E, all incorporate A-Form (Auto-FORMat), an Onkyo-exclusive advanced memory system that not only senses the signal format—DTS, Dolby Digital, or stereo, for example—but also, unlike any other receiver, switches to the listening modes you pre-assigned for that source—so you can just hit a button, sit back and enjoy your movies and music.

**Remote Interactive (RI)** This rear-panel jack lets you use your receiver's remote to operate the major functions of other RI-compatible Onkyo components—so, for instance, you can start the show with just one touch of the DVD and play buttons on your receiver's remote.

### Multiroom/Multisource Capabilities

Depending on which receiver you choose, you can enjoy surround-sound movie in one room, while someone else listens to stereo music in another room. Our top three receivers go a step further by providing a full set of line outs for composite video and S-video—so you can set up an additional system in another room. Models with IR (Infrared) input ports can accommodate external IR translators, repeaters, extenders, and other IR control components, for easy and versatile second-zone control. Or you can go all out and use the RS-232 port on the back in conjunction with a more elaborate home-automation controller from Crestron®, Amx® (Panja) and other manufacturers.

**Color-Coded Speaker Terminals** These color-coded speaker terminals take the guesswork out of matching wires to the correct terminals. Simply attach the color-coded label to the speaker cable, and attach the cable to the same-colored speaker terminal for easy speaker connection.



**Crossover Adjustment** Previously, crossover frequency was fixed at 80 Hz. With Crossover Adjustment, you can set the frequency at 80/100/120 Hz, depending on your speakers' bass playback ability. This lets you more accurately match the performance characteristics of the subwoofer to your front speakers.



### THX®



THX, the inspiration of George Lucas, was originally created as a studio-reference monitoring tool. All guarantee you superior performance and ensure accurate reproduction of the movie-theater experience in the home. THX Surround EX—It extends the 5.1-channel format by adding another channel of information between the left and right surround channels. This lets movie sound mixers place sounds behind you, not just to the sides as in a standard cinema. THX Ultra2—You're provided with ultimate eight-channel (7.1) playback of any 5.1 multi-channel program—enjoy reference-standard playback of music as well as movies. In addition, the video switching handles all wide-bandwidth sources, such as HDTV and progressive scan, without any picture degradation. The THX Select standard is for a 2,000 cubic foot room, while the THX Ultra standard is for a 3,000 + cubic foot room.

### DOLBY® DIGITAL EX™ AND DOLBY® PRO LOGIC™ II



Dolby Digital EX creates six full-bandwidth output channels from 5.1-channel sources. This is done using a matrix decoder that derives three surround channels from the two in the original recording. Dolby Digital, with 5.1 (6) discrete channels, is the designed multichannel format for DVD-Video, HDTV. And Dolby Pro Logic II creates a quasi-5.1-channel experience, with stereo, full-bandwidth surround channels from Dolby Surround film soundtracks and stereo music sources.

### DTS® (DIGITAL THEATER SYSTEMS)



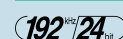
There are two DTS-ES (Extended Surround) formats: DTS-ES Discrete 6.1 and DTS-ES Matrix 6.1. The DTS-ES Discrete 6.1 format is, as the name implies, a 6.1-channel system, with a discrete back surround channel, while DTS-ES Matrix 6.1, like Dolby Digital Surround EX, provides a matrix-encoded back surround channel. There's also DTS Neo:6, which derives a 6-channel surround output from a stereo soundtrack, and regular DTS, which, like Dolby Digital, is a discrete 5.1-channel system, but uses less compression than Dolby Digital. DTS 96/24 offers you the sound quality of the original 96/24 master. Also, you won't have to worry about buying a new DVD player. DTS 96/24 can be carried on DVD-video, or in the video zone of DVD-audio, which makes it playable on all DVD players.

### CinemaFILTER



The tonal balance of a film soundtrack will be edgy and "bright" when played back over audio equipment in your home. Onkyo has developed its own enhancement that restores the correct tonal balance for watching a movie soundtrack in your smaller home theater.

### 192 kHz/24-Bit DACs



Costly, extremely powerful digital-to-audio converters for all six or seven channels in our top three receivers. They not only boast a dynamic range of 120 dB, they process information faster and are virtually resistant to clock jitter, to ensure the best possible performance from DVD-Audio, video DVDs and audio CDs.

### POWERED ZONE 2



You don't need an external amplifier to enjoy a stereo audio source (radio, CD, MD, LP or cassette) in the main room, while at the same time someone else listens to a different stereo source in another room.

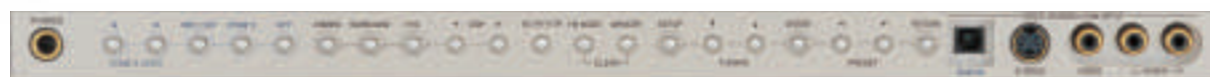
### MULTIROOM OPERATION



Enables your receiver to send audio—and in some cases, video—to a second room independently of whatever is playing in your main entertainment room. It's like getting two A/V receivers in one!

# TX-DS898 **Integra**

THX® SELECT 7.1-CHANNEL DIGITAL SURROUND RECEIVER WITH THX® SURROUND EX™



A digital input, A/V & S-video inputs, and the lesser-used controls are neatly tucked away behind the drop-down panel

**P**resenting the remarkable new TX-DS898, a home-theater centerpiece whose 7.1 independent channels of high-current, ultrawide-bandwidth equal-power and thoughtful features are the result of a single-minded approach to its engineering and design—namely, to provide you with a home-entertainment experience that is nothing short of extraordinary. Here's a short list of what you can expect:

7.1-channels and THX Surround EX decoding to take you and your audience to a new level of soundtrack-sonic excitement, a “pure-audio” mode that turns off the display and video circuitry to provide the cleanest audio signal possible, powered Zone 2 to let you enjoy different sources (audio or video) in two rooms simultaneously, an assignable 12-volt trigger to switch on a Zone-2 amplifier, an RS-232 port to easily interface with whole-house control systems from such companies as Amx® (Panja), Crestron® and others, and an astonishingly versatile touchscreen LCD remote that will put you in command as never before.

- 7 x 150 W/Ch, Continuous, 6 Ω, 1 kHz, DIN
- THX Select Certified
- 7.1 Channel Amplifier
- THX Surround EX, Dolby Pro Logic II, DTS-ES Discrete/Matrix 6.1, DTS Neo:6
- 192 kHz/24-Bit DACs x 6
- Ready for HDTV, Progressive-Scan DVD and DVD-Audio/SACD
- 2 Wideband Component-Video Inputs/1 Output
- Composite to S-Video Conversion
- Powered Zone-2
- 12 V DC Trigger
- A-Form Listening Mode Memory
- RS-232 Port
- 8 Digital Inputs (5 optical/3 coaxial; 7 assignable) and 2 Outputs

SILVER BLACK



- Unique Universal Learning Remote Control
- Large, Bright Touchscreen Display
- Fully Customizable to Your Individual Needs & Tastes
- Direct-Access Buttons for Frequently Used Functions
- Replaces All Other Remotes
- Total Control of Infrared-Based Electronic Devices
- Bright Backlighting
- Programmable, Editable Macros & Timers
- Elegant, Intuitive Interface

(Supplied USR-5)

**T**ime to get rid of all those other remotes! In addition to giving you total control of virtually an unlimited number of infrared-based components, this unique and fully customizable universal touchscreen remote lets you design and personalize buttons, panels and devices. Plus, each macro can consist of up to 255 learned signals, and there is 2 MB of extended memory for larger configuration files.



THX SURROUND EX™





# TX-DS797 THX® SELECT 6.1-CHANNEL DIGITAL SURROUND RECEIVER WITH THX SURROUND EX™

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THX SURROUND EX™



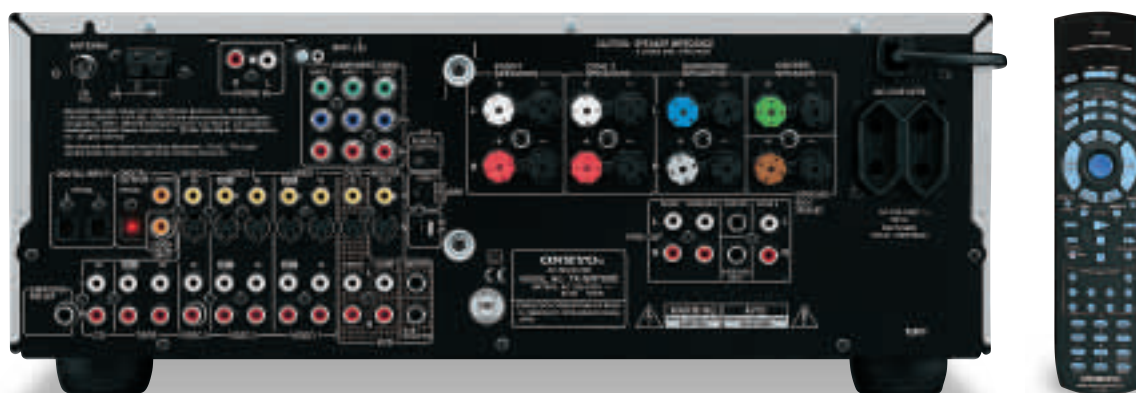
The new TX-DS797 offers you a major breakthrough—the ability to turn your house into a digital multimedia dream—without draining your savings account. Not only is it equipped with enough inputs and outputs for the most elaborate systems, it has plenty of high-current, ultrawide-bandwidth power to fill even large entertainment rooms, and dual-zone operation. 192 kHz/24-bit D/A converters for *all* 6 main channels deliver powerful, precise sound. Plus, it can handle virtually any multichannel format out there—today and tomorrow—including DVD-Audio and THX Surround EX. But what will impress you the most about the TX-DS797 is the outstanding sound performance—it's unmatched by any other receiver in its class. If it weren't for its elaborate video input and output provisions, you could call the TX-DS797 an audiophile's receiver. Listen to it yourself and you won't be satisfied with anything less.

- 6 x 135 W/Ch, Continuous, 6  $\Omega$ , 1 kHz, DIN
- THX Select Certified
- 6.1 Channel Amplifier
- THX Surround EX, Dolby Pro Logic II, DTS-ES Discrete/Matrix 6.1, DTS Neo:6
- 192 kHz/24-Bit DACs x 6
- Ready for HDTV, Progressive-Scan DVD and DVD-Audio/SACD
- 2 Wideband Component-Video Inputs/1 Output
- Zone-2 Capability (audio & video)
- 12 V DC Trigger
- A-Form Listening Mode Memory
- 7 Digital Inputs (4 optical/3 coaxial; 6 assignable) and 1 Optical Output
- Backlit Learning Remote with Macros and Mode-Key LEDs



# TX-SR700E 6.1-CHANNEL DIGITAL SURROUND RECEIVER

SILVER BLACK



Meet Onkyo's TX-SR700E, a versatile 6.1-channel home theater receiver that pulls out all the stops to deliver stunning new levels of soundtrack realism. What's the secret? Well, for a start, it's compatible not only with DTS-ES, but also with Dolby Digital EX, the latest digital surround sound format from Dolby Laboratories. Simply hook up a rear speaker and immerse yourself in dynamic, 360-degree surround sound. Those swooping helicopter fly-overs have never sounded more floor-quakingly realistic. But it's not just your DVDs that sound better with the TX-SR700E: Dolby ProLogic II puts a fresh spin on your old CDs, too, conjuring spacious, quasi-5.1ch sound. And when we said "versatile," we meant it. The TX-SR700E is simply brimming with practical and easy-to-use functions. You want different A/V outputs in two rooms at the same time? That's what the powered Zone 2 is for. How about the ability to record music onto MD while you're watching a DVD? With the recording selector, that's just one of many possibilities. So, if you think you're ready to explore the boundless possibilities of home theater, let the TX-SR700E be your guide.

- 6 x 130 W/Ch, Continuous 6  $\Omega$ , 1 kHz, DIN
- DTS-ES Discrete/Matrix 6.1, DTS Neo:6, Dolby Digital EX, Dolby Pro Logic II
- 192 kHz/24-Bit DACs (front L/R) and 96 kHz/24-Bit DACs (other channels)
- Ready for HDTV, Progressive-Scan DVD and DVD-Audio/SACD
- 2 Wideband Component-Video Inputs/1 Output
- 4 Digital Inputs (3 optical/1 coaxial; 3 assignable)
- 2 Digital Outputs (1 optical/1 coaxial)
- CinemaFILTER
- A-Form Listening Mode Memory
- 12 V Trigger for Zone 2
- Onscreen Display
- Color-Coded Dual Banana Plug-Compatible Speaker Posts
- Crossover Adjustment (80 Hz, 100 Hz, 120 Hz)
- Backlit/Preprogrammed & Learning Remote with Macros and Mode-Key LEDs

# TX-SR600E 6.1-CHANNEL DIGITAL SURROUND RECEIVER

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The first thing you'll do when you get the TX-SR600E out of its box is breathe a deep sigh of contentment. Yes, it boasts the reassuringly solid workmanship you expect of Onkyo. And yes, it's just as stylish as it was when you first laid eyes upon it. But there's a lot more to the TX-SR600E than just superb build quality and high-class looks: it's what's inside the TX-SR600E that really marks it out as a receiver of distinction. Start with the added sonic realism provided by the 6.1-channel surround sound formats, Dolby Digital EX and DTS-ES. The extra sixth channel powers a back speaker and ensures all-enveloping sound—you can surf your sofa right into the eye of the tornado. Consider, too, the comprehensive list of features: an on-screen display for quick and easy set-up, front-panel terminals to plug-and-play your VCR, color-coded terminals for effortless speaker hook-up, and Crossover Adjustment to guarantee well-balanced sound at any volume. Every detail has been seen to, every effort made, to provide you with an even more complete home theater experience. So now there's a new benchmark in the world of home theater; it goes by the name of the Onkyo TX-SR600E.

- 6 x 115 W/Ch, Continuous, 6  $\Omega$ , 1 kHz, DIN
- DTS-ES Discrete/Matrix 6.1, DTS Neo:6, Dolby Digital EX, Dolby Pro Logic II
- 192 kHz/24-Bit DACs (front L/R) and 96 kHz/24-Bit DACs (other channels)
- 10 Hz-100 kHz Extended Frequency
- CinemaFILTER
- A-Form Listening Mode Memory
- 4 Digital Inputs (3 optical/1 coaxial; 3 assignable)
- Onscreen Display
- DOT Matrix FL Display
- Color-Coded Dual Banana Plug-Compatible Speaker Posts
- Crossover Adjustment (80 Hz, 100 Hz, 120 Hz)
- Preprogrammed & Learning Remote with Macros and Mode-Key LEDs

# TX-SR500E 5.1-CHANNEL DIGITAL SURROUND RECEIVER



Looking to invest in your first home theater receiver? Might as well get it right. The easy-as-a-dream TX-SR500E is the 5.1-channel digital receiver that gives you the best of both worlds: audiophile performance at a surprisingly affordable price. So what makes the TX-SR500E the perfect first home theater receiver? Simple. For one thing, you can get started right away, with whatever speaker set-up you have now. Non-Scaling Configuration and Crossover Adjustment ensure breathtaking bass performance, regardless of the size of your speakers and regardless of whether or not you're using a subwoofer. And another thing: the TX-SR500E is impressively adaptable—you won't have to look for a new receiver if you want to upgrade your speakers later. Need more convincing? Then consider our Wide Range Amplifier Technology (WRAT), which yields beautifully balanced sound at any volume, and Optimum Gain Volume circuitry, which dramatically reduces noise interference. To make things even easier for you, we've topped it off with color-coded terminals and front-panel video inputs. The TX-SR500E from Onkyo—home theater starts here.

- 5 x 85 W/Ch, Continuous, 6  $\Omega$ , 1 kHz, DIN
- DTS, Dolby Digital, Dolby Pro Logic II
- CinemaFILTER
- Ready for HDTV, Progressive Scan DVD and DVD-Audio/SACD
- 96 kHz/24-Bit DACs for All Channels
- Optimum Gain Volume Circuitry
- "Easy-Set" Speaker Configuration
- 4 S-Video Inputs and 2 Outputs
- 3 Assignable Digital Inputs (2 optical/1 coaxial)
- DOT Matrix FL Display
- Color-Coded Dual Banana Plug-Compatible Speaker Posts
- Crossover Adjustment (80 Hz, 100 Hz, 120 Hz)
- Powerful Full-Function RI-Compatible Remote Control



**DVD Audio—Unprecedented Fidelity** (DV-S939, DV-S757) DVD-Audio's data-loss-free reproduction of 192 kHz/24-bit 2-channel stereo or 96 kHz/24-bit 6-channel surround sound recreates music with such detail and clarity, it sounds as if every recording is being played live in your home. DVD-Audio can store 1,100 times more information per second than a CD. And with a super-high



to directly output the 96 kHz/24-bit digital bitstream straight from the disc to the back panel. This protects the audio signal against potential noise from nearby microprocessors and power supplies. So if you use the optical or coaxial digital output to send multichannel Dolby Digital and DTS to your compatible receiver, you're starting off with the cleanest possible signal.



Onkyo's latest receivers, which, unlike older receivers, accept 96 kHz bitstreams. If you select the 48 kHz output in the set-up menu, then any DVD audio track containing a 96 kHz signal will be downconverted to 48 kHz by the players for backwards compatibility with older components.

**Digital Audio Outputs** You'll find at least one coaxial and one optical digital output on all of our players—to give you simple, single-cable hookup



to your receiver, processor, or 6-channel amplifier equipped with a Dolby Digital or DTS decoder. In addition to passing Dolby Digital, DTS, and PCM signals, the digital output is software-selectable, to give you maximum convenience when switching



between DVD, Video CD and CD playback.

**SCART Output** This multi-pinned jack gives you high-quality, single-cable connection to the latest TVs, projectors and monitors. It also brings out the full potential of your DVDs by sending three extremely clean, separate RGB (red, green, and blue) signals to your TV's picture tube, thereby eliminating the usual PAL artifacts, including dot crawl and moiré (wavelike or watered appearance), for stunning color fidelity and virtually no discernible video noise.



**Passes PLUGE Signals** If you're a video aficionado, you want your DVD player to produce the most accurate blacks possible—because even small black-level errors will subtly deteriorate picture quality. That's why all of our DVD players can pass PLUGE (Picture Line Up Generation Equipment) signals, a widely used test pattern that makes it easy to set optimum black levels.

**Rugged, No-Nonsense Construction** All Onkyo DVD players feature an anti-resonant, heavy-gauge, reinforced-steel chassis to provide greater strength and maximize vibration damping. Large anti-resonant feet help keep shelf-borne vibration from reaching the signal. The heavy-duty power cord delivers optimum power-handling capability, and resists wear and tear over extended long-term use. And the thick-metal faceplate does more than provide long-term elegance—it enhances overall chassis rigidity.

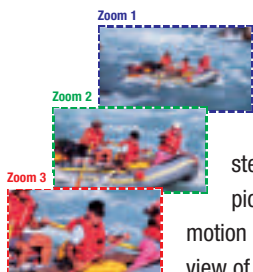


## Premium Digital DVD Players—Your Ticket to High-End Image & Sound Quality

frequency rate of 192,000 samples per second—4.3 times greater than an audio CD—you get 256 times the resolution, a frequency response up to 96 kHz, and an extraordinary dynamic range of up to 144 dB—which translates into a musical experience that goes beyond just listening!

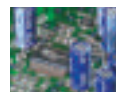
**Progressive Scan** (DV-S939) Most DVDs are “progressive”—meaning they produce video in complete frames. But to be compatible with all TVs, the DVD signal must be interlaced—a method where the picture is split into two fields and then blurred together to look like one. Progressive scan, however, retrieves the original progressive signal, and on such compatible displays as HDTV, digital TV and high-end projectors, “paints” all the visible lines on the screen in a single pass—so you'll enjoy a scan-line-free image, with spectacularly clear color, no motion artifacts, and details so sharp they seem as if they're etched onto the screen.

**Picture Magnification** (DV-S939) Ever wish you could get a closer look at some of your favorite scenes? This feature lets you “zoom” in and enlarge in six steps 25 selected areas of the picture during normal or slow-motion playback, for a super-close view of the onscreen action.



**Exclusive Direct Digital Path** Unlike other DVD players that use inexpensive PC-board copper traces to transfer the digital audio signal, Onkyo DVD players employ a high-purity, heavy-gauge, shielded cable

**192 kHz/24-Bit Audio DACs** Performing at a full 192 kHz/24-bit level of resolution, these state-of-the art digital-to-audio converters deliver audio performance that is second to none. They boast a higher dynamic range than standard D/A converters, and are virtually resistant to clock jitter—which means you'll enjoy the best performance possible from DVD-Audio discs, and cleaner sound from your regular DVDs and CDs.



**54 MHz/10-Bit Video DAC** (DV-S939, DV-S757) Operating at twice the speed of conventional 27-MHz systems, this advanced DAC's video processing and built-in 4:4:4 oversampling filter ensure loss-free signal transfer and an extended picture resolution of 540 lines—so you'll enjoy an image that is consistently artifact-free, rich in color detail & purity, and truer to the studio master.



**Video Circuit On/Off Control** For the best audio quality possible, you can turn off the video circuitry when using the DV-S939 or DV-S757 as an audio-only player, eliminating the possibility of interference between the player's video and audio circuitry.



**96 kHz/48 kHz Selectable Digital Output** While most DVD players downconvert 96/24 audio to 48 kHz and 20 bits for their digital outputs, the DV-S757, DV-S555, and DV-L5 are three of the few mainstream DVD players that can provide a true 96 kHz/24-bit PCM digital audio bitstream through either its digital coaxial or optical TosLink connection. This makes the players ideally suited to

# DV-S939 **Integra** THX® ULTRA CERTIFIED DVD AUDIO/VIDEO PLAYER

**WHAT HI-FI?**  
SOUND AND VISION  
★★★★★

DVD AUDIO

PROGRESSIVE SCAN

SILVER BLACK



This THX Ultra Certified player blends the ultra-high frequency response of DVD-Audio with the video precision of progressive scan—to take your audio/visual senses to new heights and forever change the way you experience music and movies. Comprehensively designed to perform flawlessly now and well into the future, the DV-S939 is fitted with high-end 192 kHz/24-bit DACs to faithfully reproduce 192-kHz 2-channel stereo, or loss-free 96-kHz 5.1-channel surround sound. There's an RS-232 port for easy upgrades and full home-automation control. And the DB-25 port gives you single-cable multichannel hook-up to receivers like the TX-DS989. Plus, the 6-channel RCA output, two gold-plated progressive component-video outputs, and four digital outputs give you total connection flexibility. Equally impressive is the DV-S939's build quality. Two oversized transformers keep the power supply separate for the digital and analog sections. And a heavy-duty mechanical tray door and disc tray reduce vibration and provide greater signal purity.

- THX Ultra Certified
- Plays DVD-Audio & Video Discs, Video CDs, CD-Rs, CD-RWs & CDs
- 54 MHz/10-Bit Video DAC
- RS-232 Port for Upgrades & Control
- 192 kHz/24-Bit DACs
- DB-25 and RCA 6-Ch Multichannel Outputs
- 2 Gold-Plated Progressive Component-Video Outputs and a SCART Connector
- 4 Digital Outputs pass DTS, Dolby Digital, MPEG and PCM Signals
- Dolby Digital Decoder Built In
- Separate Transformers for Digital and Analog Sections
- Electrical and Magnetic Shielded Mechanism
- Heavy-Duty Mechanical Tray Door

# DV-S757 THX® ULTRA-CERTIFIED DVD-AUDIO/VIDEO/MP3 PLAYER



**T**he more you like movies—and the more closely you listen—the more you'll appreciate the THX-Ultra certified DV-S757. Audio performance is second to none, with a video-circuitry off mode and audiophile-grade digital-to-analog Crystal® converters performing at full 192 kHz/24-bit levels of resolution. And unlike most DVD players that downconvert 96/24 audio to 48 kHz and 20 bits for their digital outputs, the DV-S757 can provide a true 96 kHz/24-bit PCM digital audio bitstream through either its digital coaxial or optical TosLink connection to give you stunning sonic realism. Further testimony of its Onkyo-audiophile pedigree is its exclusive Direct Digital Path—a high-purity, shielded cable that directly outputs the 96 kHz/24-bit digital bitstream straight from the disc to the back panel, avoiding potential noise from nearby microprocessors and power supplies. What about the picture? The state-of-the-art 54 MHz/10-bit video DAC system provides the highest quality video digital-to-analog conversion available today, for an improvement you have to see to appreciate!

- Plays DVD-Audio & Video Discs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- THX Ultra Certified
- State-of-the-Art 54 MHz/10-bit Video D/A Conversion
- 192 kHz/24-bit Crystal Audio DACs
- 96 kHz or 48 kHz Selectable Digital Output
- Direct Digital Path
- Passes PLUGE Signals
- MPEG Decoding
- 6 RCA Jacks for Multichannel Analog Output
- Scart, S-Video & Composite Outputs
- Dedicated Subwoofer Preout
- Full-Function RI-Compatible Remote



# DV-S555 DVD/CD PLAYER

SILVER BLACK



The DV-S555 is proof you don't have to empty your pocketbook to get high-end picture and sound quality. It's also another good example of how Onkyo gives you more useful features for your money. Case in point: while all DVD players can play CDs, only a rare few can play CD-Rs (write-once) and CD-RW (rewritable) discs. And fewer still can play CDs that hold MP3-coded files. This means you can play over your home-theater system the MP3 files you downloaded—up to 10 hours or more of music on a single disc, depending on the bit rate of the MP3 files. The DV-S555 will display MP3 filenames on your TV screen, and you can program a playlist of up to 24 songs from the same disc. Other notable features include the latest 192 kHz/24-bit digital-to-analog converters (for all channels) to provide cleaner, clearer sound from all of your DVDs and CDs, and an Onkyo-developed Direct Digital Path to deliver a noise-free digital signal that's less susceptible to flux. There's even a mono out to connect a powered subwoofer and allow those without a home theater system to enjoy dynamic movie sound from just their TV.

- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- 192 kHz/24-Bit Audio DACs for All Channels
- Direct Digital Path
- Passes PLUGE Signals
- Optical & Coaxial Digital Outputs for DTS/Dolby Digital/PCM
- 96 kHz or 48 kHz Selectable Digital Out
- Scart, S-Video & Composite Outputs
- Subwoofer/Mono Output
- Onscreen Display (English, French, Spanish, German, Italian)
- Front Panel Curser Control & Display Dimmer
- Full-Function RI-Compatible Remote Control

## SKS-101

CENTER/SURROUND  
SPEAKER PACKAGE



### CENTER SPEAKER

- Magnetic Shielding
- 2 Full-Range 10 cm Cone Drivers
- 6  $\Omega$  Impedance
- 100 W Max Input Power
- 87 dB/W/m Sensitivity

### SURROUND SPEAKERS

- Acoustic Suspension
- Full-Range 10 cm Cone Driver
- 6  $\Omega$  Impedance
- 100 W Max Input Power
- 83 dB/W/m Sensitivity

## D-052AX

TWO-WAY, BASS REFLEX



- 13 cm OMF Diaphragm Woofer
- 2.5 cm Soft-Dome Tweeter
- Magnetically Shielded
- 4  $\Omega$  Impedance
- 70 W Max Input Power
- Available in Black (B) or Beech (Y)

## D-032A (B)

TWO-WAY, BASS REFLEX



- 12 cm Bio-Hybrid Cone Woofer
- 2.5 cm Soft-Dome Tweeter
- Magnetically Shielded
- Extensively Braced MDF Cabinet
- 6  $\Omega$  Impedance
- 70 Watt Max Input Power
- 87 dB/W/m Sensitivity

## SKW-205

POWERED SUBWOOFER



- Built-In 60 W Amplifier
- Front Panel Movie/Music Mode Button
- Front Panel Output and Frequency Controls
- Auto-Standby Circuitry

(Available only in selected markets)

## DR-S2.2

DVD/CD PLAYER AND 5.1-CHANNEL DTS®/DOLBY® DIGITAL/DOLBY® PRO LOGIC™ II SURROUND RECEIVER



- 5 x 35 W/Ch, Continuous 6  $\Omega$ , 1 kHz, DIN
- DTS, Dolby Digital, Dolby Pro Logic II
- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- High-Current, Low-Impedance Drive
- 2 S-Video Inputs and 2 Outputs
- 2 Digital Inputs and 1 Output
- Subwoofer Pre Out
- Scart Connector
- Color-Coded Speaker Terminals
- Pre-Programmed, Aluminum-Faced, Learning Remote Control

With elegance and performance that puts it above home-theater-in-a-box systems, the DR-S2.2 stylishly combines a high-quality DVD/CD/CD-RW/CD-Video/MP3 CD player with an exquisitely engineered amplifier and a highly sensitive RDS FM/AM tuner. Further separating it from home-theater-in-a-box systems, you can match the speakers of your choice to complement this piece of art that will enhance any room you place it in. Hooking up to your TV is done through the array of connections on the back including a Scart jack which allows you to hook up to a high resolution plasma or other quality TV, giving you added depth and dimension to your DVD videos.

### D-L5 BASS REFLEX SPEAKERS



- 5 Ultra-Small Palm-Sized Satellites
- Full-Range 8 cm OMF Cone
- Heavy-Duty Solid Aluminum Cabinet
- Magnetically Shielded
- Wall or Stand Mountable
- 6  $\Omega$  Impedance
- 40 W Max Input Power
- High-Purity Copper Speaker Cable Supplied

(Available only in selected markets)

### SL-105 **BLACK** **SILVER** POWERED SUBWOOFER



- 20 cm Long-Stroke Woofer
- High-Quality Built-In 60 W Amplifier
- Discrete Output Stage Circuitry
- Front Panel Volume and Frequency Controls
- Magnetically Shielded
- Reinforced MDF Cabinet

(Available only in selected markets)

## You Are Looking at an Engineering Masterpiece

Load a DVD, dim the lights, hit the play button and the thrill of the performance begins. From its super-slim styling and superb sound and image quality, to its cutting-edge electronics and operation ease, the L5 Series is more than just an A/V system. It's the ultimate balance between performance and design.

### TX-L5 ULTRA-SLIM 5.1-CHANNEL DIGITAL SURROUND RECEIVER



- 5.1-Channel Amplifier
- DTS, Dolby Digital, Dolby Pro Logic II
- WRAT (Wide Range Amplifier Technology)
- Discrete Output Devices for All Channels
- 96 kHz/24-Bit DACs for All Channels
- Non-Scaling Configuration
- 9 DSP Soundfields
- 2-Mode Acoustic Control
- 3 Digital Inputs (2 optical/1 coaxial)
- 3 S-Video Inputs and 2 Outputs
- Subwoofer Preout
- Tape/MD Dubbing & Video Dubbing
- 30 RDS FM/AM Random Presets
- FM Auto-Scan Tuning
- Full-Function Remote Control

### DV-L5 ULTRA-SLIM DVD/CD PLAYER



- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- 192 kHz/24-Bit Audio DACs for All Channels
- Direct Digital Path
- Passes PLUGE Signals
- Optical & Coaxial Digital Outputs for DTS/Dolby Digital/PCM
- 96 kHz or 48 kHz Selectable Digital Out
- Full Set of A/V Outputs (Scart, S-Video & Composite)
- Subwoofer Preout
- Dynamic Range Control
- Last Play Memory (5 DVDs)
- Program Memory (24 DVDs)
- Condition Memory (15 DVDs)
- Onscreen Display (English, French, Spanish, German, Italian)
- Full-Function Remote Control

### MB-S1 ULTRA-SLIM HARD DISK MUSIC LIBRARY



This revolutionary hard-disk music server lets you record and playback up to 450 hours of music, and enjoy MP3 music through your home-stereo system at a level of sound quality that will astonish you. And that's just the beginning. A built-in CD drive lets you rip CDs directly to the hard drive as loss free PCM data or compressed using the Fraunhofer IIS MP3 encoding/decoding engine—the world's finest algorithm for MP3 compression.

- Record and Playback Up to 450 Hours of Music
- Easily Sort Your Music by Genre, Artist, Album, Title or Date
- Create Up to 10 Custom Playlists
- Front-Panel USB Port
- 2 Digital Inputs and 1 Optical Output
- 20-GB Silent Audio-Grade HDD
- Fraunhofer IIS MP3 Encoding/Decoding Engine
- Full-Function CD Player Plays MP3 CDs and CD-Rs
- "Carry Tunes" Bundled PC Software
- Separate PC Boards for System Control and D/A Conversion
- Full-Function Remote Control





## HS-N1 HIGH-END DESKTOP CD RECEIVER WITH SLIMLINE SPEAKERS

TITAN



(CR-N1)

(D-N1)



Quality is something you recognize the moment you experience it. And quality—that sense of solidity, fine workmanship and attention to detail—is the word that best describes this stylish, integrated audio system. Everything from the carefully crafted solid-aluminum front panel and soft-blue LEDs, to the light-touch chrome-plated buttons and critical circuit refinements, to the heavy-duty construction, affirm quality. But to fully understand what really makes this system so unique, simply turn it on. What you hear will surprise you. An amazing clarity of each instrument and voice. Full, rich bass. And all of the little nuances that make music so enjoyable. The CR-N1 also gives you a remarkable array of convenient features, including a USB port for playing PC audio, a line-level input and output for quick, easy, clean connection to a TV, VCR or other analog component, a 2-mode Acoustic Presence function to increase richness and depth, an optical digital output to connect an MD/CD recorder, a highly sensitive RDS FM/AM tuner with 30 presets, a quick-sliding motorized door and unique tray that lets you watch your vertically loaded CD spin, a 3-mode timer, and even a subwoofer output!



USB connection for playing PC audio (Internet MP3s, ripped CD tracks, etc.)

### CR-N1

#### HIGH-END DESKTOP CD RECEIVER

- 4  $\Omega$  Low-Impedance Drive
- USB Port
- 2-Mode Acoustic Presence Function
- 30 RDS FM/AM Random Presets
- FM Auto-Scan Tuning
- 8-Character Alphanumeric Display
- 3-Mode Timer (weekday, weekend, sleep)
- 3-Mode Repeat (entire side, memory, random)
- Optical Digital Output
- Line-Level Input & Output
- Subwoofer Output
- Mini-Jack Headphone Output
- Battery-Free Memory Backup
- Full-Function Remote

### D-N1

#### 2-WAY BASS REFLEX LOUDSPEAKERS

- High Efficiency 9 cm Exclusive OMF (Onkyo Microfiber) Cone Woofer
- Wide Dispersion Neodymium-Powered 2.5 cm Soft Dome Tweeter
- Magnetically Shielded
- MDF Cabinet
- 1 Meter High-Purity-Copper Speaker Cable Supplied (x 2)
- 4  $\Omega$  Impedance
- 30 W Max Input Power
- 63 Hz-35 kHz Frequency Response



## Produces Surprisingly Rich and Clear Sound for Its Size

*A handsome addition to your desktop, bookshelf, or bedside table, these high-grade components produce much bigger, cleaner sound than you'd expect considering their ultra-compact size.*

(Shown from top to bottom: R-801A, C-701A, CDR-201A)

### R-801A SILVER

#### FM/AM RECEIVER

- 20 W/ch, Continuous, 4  $\Omega$ , DIN
- WRAT (Wide Range Amplifier Technology)
- Discrete Output Stage Circuitry
- Low-Impedance Drive
- CD-R Input and Output Terminals
- 4 Analog Inputs and 3 Outputs
- Dedicated Subwoofer Preout
- 30 FM/AM Random Presets
- RDS (PS, RT, CT) & AccuClock
- FM Auto Scan Tuning
- 4-Mode Timer (weekday, weekend, rec, sleep)
- Aluminum Front Panel
- RI Remote Control

WRAT WIDE RANGE AMP TECHNOLOGY **CDRDS**

### C-701A SILVER

#### COMPACT DISC PLAYER

- DLA Link (Digital Rec Level Adjustment)
- 2 Optical Digital Outputs
- High-Quality Single-Bit D/A Converter
- Vibration-Reducing Center-Mounted Tray
- 25-Track Random Memory
- 3-Mode Repeat (entire disc, memory, random)
- 2-Mode Super Dubbing (Album, Fade Out)
- High-Rigidity Anti-Resonant Steel Chassis
- Aluminum Front Panel

DLA LINK **COMPACT disc** DIGITAL AUDIO

### CDR-201A SILVER

#### CD RECORDER/PLAYER

- Plays CDs, CD-Rs & CD-RWs
- Records to CD-Rs & CD-RWs
- CD-Text Display & Disc Titling (Disc/Track)
- DLA Link
- Rec Level Adjustment (Analog & Digital)
- 2 Optical Digital Inputs, 1 Output
- 4-Speed Finalizing
- One-Touch CD Dubbing
- Aluminum Front Panel
- RI Remote Control

**DLA LINK**

### D-N5 BEECH

#### 2-WAY BASS REFLEX

- 12 cm OMF Diaphragm Woofer
- 2.5 cm Balanced-Dome Tweeter
- Magnetically Shielded
- Extensively Braced MDF Cabinet
- 6  $\Omega$  Impedance
- 70 W Max Input Power
- 50 Hz-40 kHz Frequency Response
- Available in Beech

(Available only in selected markets)

### K-501A SILVER

#### CASSETTE DECK

- Slot-in Computer Controlled Auto-Reverse Cassette Deck
- Automatic Tape Selector
- Dolby B/C NR, HX Pro
- Auto Space Rec Mute
- Music Search
- One touch Power ON and PLAY
- CD to TAPE, One touch CD Dubbing (Album, Fade)
- RI Remote Control Terminal
- CD, CD-R, MD to Cassette Synchronized Recording
- Aluminum Front Panel



## Simplify your Life with This Hi-Fidelity Desktop Music System

*Immerse yourself in the surprising sonic clarity of this compact all-in-one CD Receiver. From your CD-Rs to your favorite artist's CDs, this user-friendly CD receiver system will sound almost too good to be true.*

### CR-305TX SILVER

#### CD RECEIVER

- 2 x 20 W/Ch, 4  $\Omega$ , 1 kHz
- Discrete Output Stage Circuitry
- Low-Impedance Drive
- 4  $\Omega$  Drive Capability
- 4-Step Acoustic Presence
- Single-Bit D/A Converter
- DLA Link
- Optical Digital Output
- RDS (PS)
- Aluminum Front Panel
- RI Remote Control

**DLA LINK** **CDRDS**



(Shown from left to right: K-505TX, CDR-205TX, R-805TX, C-705TX)

## For Music Lovers Who Want Breathtaking Clarity in Smaller Dimensions

*Ideal for your office, den, bedroom, or small apartment, these superbly crafted separate components are powerful proof you don't have to fill your room to get magnificent music reproduction.*

### **K-505TX** SILVER

#### **AUTO-REVERSE CASSETTE DECK**

- Autoreverse for Continuous Listening
- Rugged Onkyo Transport System
- Dolby HX Pro & B/C Noise Reduction
- Auto Tape Selector Sets Bias & Equalization to Match Tape Type
- Auto Recording Level Control
- Auto Spacing
- CD-to-Tape One-Touch Dubbing (Album/Fade)
- CD/MD to Tape Synchro Recording
- Music Search
- Aluminum Front Panel

### **R-805TX** SILVER

#### **RDS FM/AM RECEIVER**

- 20 W/Ch, Continuous, 6  $\Omega$ , DIN
- WRAT (Wide Range Amplifier Technology)
- Discrete Output Stage Circuitry
- CD-R Input and Output Terminals
- Processor Input and Output Terminals
- 30 FM/AM Presets
- 4-Mode Timer (Weekday, Weekend, Rec, Sleep)
- Heavy-Duty Speaker Binding Posts
- Aluminum Front Panel
- RI Remote Control

WRAT WIDE RANGE AMP TECHNOLOGY **CORDS**

### **CDR-205TX** SILVER

#### **AUDIO CD RECORDER**

- Plays CDs, CD-Rs, and CD-RWs; Records to CD-Rs, CD-RWs
- Dual Optical Digital Inputs and One Output
- CD-Text Display and Disc Titling (Disc/Artist/Track)
- 31 Preset Titles for Easy Titling (Disc/Artist/Track)
- 2 x Finalizing
- DLA Link (Digital Rec Level Adjustment)
- One-Touch CD Dubbing
- Memory Playback
- Aluminum Front Panel
- RI Remote Control

COMPACT disc DIGITAL AUDIO **DLA LINK**

### **C-705TX** SILVER

#### **CD PLAYER**

- DLA Link (Digital Rec Level Adjustment)
- Dual Optical Digital Outputs
- High-Quality Single-Bit D/A Converter
- 25-Track Random Memory
- 15-Track Music Calendar Display
- 4-Mode Repeat
- 4-Mode Time Display
- Track-1 Play Mode
- Solid Steel, Anti-Resonant Chassis
- Aluminum Front Panel

**DLA LINK** COMPACT disc DIGITAL AUDIO

### **D-052AX** BEECH BLACK

#### **TWO-WAY, BASS REFLEX**

- 13 cm OMF Diaphragm Woofer
- 2.5 cm Soft Dome Tweeter
- Magnetically Shielded
- Extensively Braced MDF Cabinet
- 4  $\Omega$  Impedance
- 70 W Max Input Power
- 85 dB/W/m Sensitivity
- 55 Hz-35 kHz Frequency Response
- Available in Black (B) or Beech (Y)

(Available only in selected markets)





(Shown from top to bottom: DV-S205TX, ED-205, R-805TX)

## Instantly Transform Any Room Into a Thrilling Home Theater

*Roll the movie! All the goods for high-impact home theater are here—the power and excitement of DTS & Dolby Digital multichannel surround, DVD movie clarity and Onkyo quality—in space-saving dimensions.*

### DV-S205TX SILVER

#### DVD/CD PLAYER

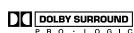
- DTS & Dolby Digital Decoders Built In
- Plays DVDs, CDs, CD-R/RWs and MP3 Video CDs
- 2 Digital Outputs (Optical)
- S-Video Output
- 5.1-Channel Analog Output
- Video Black-Level Control
- Hi-Resolution Onscreen Display
- Aluminum Front Panel
- RI Remote Control



### ED-205 SILVER

#### A/V SURROUND PROCESSOR

- Dolby Pro Logic Decoder Built In
- 3 DSP Modes
- Adjustable Digital Delay
- 5.1-Channel Input
- 2 S-Video Inputs and 2 Outputs
- Subwoofer Preout
- 3 Discrete Amps
- Oversized Isolated Transformer
- Aluminum Front Panel
- RI Remote Control



### R-805TX SILVER

#### RDS FM/AM RECEIVER

- 20 W/Ch, Continuous, 6  $\Omega$ , DIN
- WRAT (Wide Range Amplifier Technology)
- Discrete Output Stage Circuitry
- CD-R Input and Output Terminals
- Processor Input and Output Terminals
- 30 FM/AM Presets
- 4-Mode Timer (Weekday, Weekend, Rec, Sleep)
- Heavy-Duty Speaker Binding Posts
- Aluminum Front Panel
- RI Remote Control



### D-032A BLACK

#### TWO-WAY, BASS REFLEX

- 12 cm Bio-Hybrid Cone Woofer
- 2.5 cm Soft-Dome Tweeter
- Magnetically Shielded
- Extensively Braced MDF Cabinet
- 6  $\Omega$  Impedance
- 70 W Max Input Power
- 87 dB/W/m Sensitivity
- 55 Hz-35 kHz Frequency Response

*(Available only in selected markets)*



(Shown from top to bottom: DX-7333, T-4211, A-9211)

## Refining the Art of Stereo—Serious Equipment For the Serious Audiophile

*These sleek, well-built components are exemplary reminders that music-excellence doesn't have to be outrageously expensive. Each component delivers a level of fidelity that is hard for other manufacturers to rival—or even surpass at a much higher price.*

### DX-7333 SILVER BLACK

#### COMPACT DISC PLAYER

- Proprietary AccuPulse Quartz System
- Unique Next Selection Feature
- Memory Reverse (Program Delete)
- Peak-Level Search
- 36-Track Random Memory
- 3 Repeat Modes (entire disc, single track, A-B block)
- 3 Digital Outputs (2 Optical, 1 Coaxial)
- Headphone Jack with Volume Control
- Aluminum Front Panel
- RI Remote Control



### T-4211 SILVER BLACK

#### QUARTZ SYNTHESIZED FM/AM STEREO TUNER

- Digital Synthesized Tuning
- High Sensitivity & Superb Selectivity
- High-Quality Front End
- 2-Mode APR (Automatic Precision Tuning)
- RDS with PTY, TP, RT, CT, PS
- 30 RDS FM/AM Random Presets
- Selectable Character Display Input
- 3 Station-Group Presets (10 Stations Each)
- Aluminum Front Panel
- RI-System Compatible



### A-9211 SILVER BLACK

#### INTEGRATED AMPLIFIER

- 2 x 60 W/Ch, Continuous, 4  $\Omega$ , 1 kHz, DIN
- High-Current, Low-Impedance Drive
- Shielded Heavy-Duty Power Supply
- Discrete Output Stage Circuitry
- Aluminum-Extruded Heat Sink
- A/B Speaker Selector & Outputs
- Direct Source/Tone Bypass Switch
- 6 Audio Inputs
- Aluminum Front Panel
- RI Remote Control





(TA-RW244)



(DX-R700)



(TX-8211)



(DX-C380)

## For the Recording Artist—Or Those Who Aspire to Become One

Here's what recording fans need to make bit-perfect audio recordings of their favorite CDs: the new DX-R700 Audio CD Recorder (second from top). Or if you're building your first audio system, you can't go wrong with any of these finely crafted components.

### TA-RW244 SILVER BLACK

#### DOUBLE CASSETTE DECK

- Rugged Onkyo Transport System
- Auto-Reverse on Both Decks, Auto-Reverse Record on Deck B
- Dolby B/C Noise Reduction
- CD Synchro Recording
- 8-Segment FL Peak Level Meters
- Peak Hold
- Auto Tape Selector
- Auto Spacing
- 4-Digit Electronic Tape Counter
- Aluminum Front Panel
- RI-System Compatible

### DX-R700 SILVER BLACK

#### AUDIO CD RECORDER

- Plays CDs, CD-Rs, and CD-RWs; Records to CD-Rs, CD-RWs
- Digital Inputs (1 Optical, 1 Coaxial), Digital Outputs (1 Optical, 1 Coaxial)
- CD-Text Display and Disc Titling (Disc/Artist/Track)
- Auto Finalizing Function
- 2 x High-Speed Finalizing
- Signal Synchro Recording
- Built-in 32kHz/44.1kHz/48kHz Converter
- Record Level Adjustment (Analog & Digital)
- Aluminum Front Panel
- RI Remote Control



### TX-8211 SILVER BLACK

#### RDS FM/AM STEREO RECEIVER

- 2 x 70 W/Ch, Continuous, 4  $\Omega$ , 1 kHz, DIN
- High-Current, Low-Impedance Drive
- Discrete Output Stage Circuitry
- 30 FM/AM Random Presets
- 2-Mode APR (Automatic Precision Tuning)
- RDS with PTY, TP, RT, PS
- A/B Speaker Selector & Outputs
- Tape Monitor
- Aluminum Front Panel
- RI Remote Control

**CD-RDS**



### DX-C380 SILVER BLACK

#### 6-DISC CAROUSEL CHANGER

- Change Up to 5 Discs During Play
- Single-Bit D/A Converter
- Proprietary AccuPulse Quartz System
- Optical Digital Output
- 40-Track Programming
- Unique Next Selection Feature
- 6 Repeat Modes
- Disc Intro Scan
- Direct Track and Disc Access
- Oversized Isolated Power Transformer
- Aluminum Front Panel
- RI Remote Control





Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice.  
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GB

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## **TECHNICAL FEATURES AND SPECIFICATIONS**

**AUDIO/VIDEO PRODUCTS 2002**

# FEATURES

A/V RECEIVERS	TX-DS989	TX-DS898	TX-DS797	TX-SR700E	TX-SR600E	TX-SR500E
<b>POWER SPECIFICATIONS</b>						
POWER OUTPUT*						
FRONT L/R (AT 6 $\Omega$ , 1 kHz, DIN)	160 W/ch	150 W/ch	135 W/ch	130 W/ch	115 W/ch	85 W/ch
CENTER (AT 6 $\Omega$ , 1 kHz, DIN)	160 W	150 W	135 W	130 W	115 W	85 W
SURROUND L/R (AT 6 $\Omega$ , 1 kHz, DIN)	160 W/ch	150 W/ch	135 W/ch	130 W/ch	115 W/ch	85 W/ch
SURROUND BACK (AT 6 $\Omega$ , 1 kHz, DIN)	160 W/ch (L/R)	150 W/ch (L/R)	135 W	130 W	115 W	—
DYNAMIC POWER**	4 $\Omega$ (FRONT)	230 W/ch	220 W/ch	170 W/ch	160 W/ch	125 W/ch
	8 $\Omega$ (FRONT)	150 W/ch	140 W/ch	115 W/ch	95 W/ch	85 W/ch
<b>AMPLIFIER DESIGN</b>						
IDENTICAL FULL-BANDWIDTH CHANNELS	7	7	6	6	6	5
REDUCED NFB (NEGATIVE FEEDBACK) DESIGN	✓	✓	✓	✓	✓	✓
WRAT (WIDE RANGE AMPLIFIER TECHNOLOGY)	✓	✓	✓	✓	✓	✓
NON-SCALING CONFIGURATION	✓	✓	✓	✓	✓	✓
DIGITAL-TO-ANALOG CONVERTERS	192 kHz/24-Bit x 8	192 kHz/24-Bit x 6 96 kHz/24-Bit x 2	192 kHz/24-Bit x 6 96 kHz/24-Bit x 2	192 kHz/24-Bit x 2 96 kHz/24-Bit x 5	192 kHz/24-Bit x 2 96 kHz/24-Bit x 5	96 kHz/24-Bit x 6
HIGH CURRENT LOW IMPEDANCE DRIVE	✓	✓	✓	✓	✓	✓
ALL DISCRETE OUTPUT STAGE AMPS	✓	✓	✓	✓	✓	✓
OPTIMUM GAIN VOLUME CIRCUITRY	✓ (Linear)	✓ (Linear)	✓ (Linear)	✓	✓	✓
DIGITAL UPSAMPLING	✓	✓	✓			
<b>HOME THEATER FEATURES</b>						
THX SURROUND EX™	✓	✓	✓			
THX® CERTIFIED	✓ (Ultra)	✓ (Select)	✓ (Select)			
EXTENDED FREQUENCY RESPONSE (+1 dB, -3 dB)	5 Hz-100 kHz	10 Hz-100 kHz	10 Hz-100 kHz	10 Hz-100 kHz	10 Hz-100 kHz	10 Hz-100 kHz
DTS, DTS-ES DISCRETE/MATRIX 6.1 AND NEO:6	✓	✓	✓	✓	✓	DTS Only
DOLBY® DIGITAL, DOLBY® PROLOGIC II	✓	✓	✓	✓	✓	✓
DOLBY® DIGITAL EX™	✓ (UPG-2)			✓	✓	
A-FORM LISTENING MODE MEMORY	✓	✓	✓	✓	✓	
COMPOSITE TO S-VIDEO CONVERSION	✓	✓	✓	✓	✓	
MULTICHANNEL INPUT	7.1	7.1	7.1	5.1	5.1	5.1
CINEMAFILTER				✓	✓	✓
DIGITAL SOUNDFIELD PROCESSING MODES	50	36	36	13	13	9
LATE NIGHT MODE	✓	✓	✓	✓	✓	✓
COLOR-CODED SPEAKER TERMINALS				✓	✓	✓
HD DSP (HIGH DEFINITION DSP)	✓	✓	✓	✓	✓	✓
ONSCREEN DISPLAY	✓	✓	✓	✓	✓	
ADJUSTABLE DIGITAL DELAY	✓	✓	✓			
CROSSOVER ADJUSTMENT				✓	✓	✓
<b>INPUTS</b>						
AUDIO AND AV INPUTS	4/6	3/6	3/6	3/5	2/5	2/4
HDTV-READY COMPONENT VIDEO IN/OUT	3/1	2/1	2/1	2/1	2/1	—
FRONT-PANEL VIDEO INPUT (WITH S-VIDEO)	✓	✓	✓	✓	✓	✓
S-VIDEO COMPATIBLE JACKS IN/OUT	6/5	6/3	6/3	5/3	5/2	4/2
DIGITAL INPUTS	3 Optical 5 Coaxial 1 AC-3 RF	5 Optical (1 Front Panel) 3 Coaxial	4 Optical (1 Front Panel) 3 Coaxial	3 Optical (1 Front Panel) 1 Coaxial	3 Optical (1 Front Panel) 1 Coaxial	2 Optical 1 Coaxial
AMP IN	✓ (3)					
RS-232 CONTROL PORT	✓	✓				
IR IN/OUT	(IN) Main/Zone 2	1/1	1/1	1/0		
<b>PRE OUTS</b>						
FRONT L/R	✓	✓	✓	✓		
CENTER	✓	✓	✓	✓		
SURROUND L/R	✓	✓	✓	✓		
SURROUND BACK	✓ (L/R)	✓ (L/R)	✓ (2)	✓		
SUBWOOFER	✓ (2)	✓	✓	✓	✓	✓
<b>OTHER FEATURES</b>						
DOT-MATRIX DISPLAY	✓	✓	✓	✓	✓	✓
DISPLAY DIMMER	3 Levels + Off	3 Levels	3 Levels	3 Levels	3 Levels	3 Levels
PURE AUDIO MODE	✓	✓	✓	✓		
DUAL BANANA PLUG COMPATIBLE SPEAKER TERMINALS	All Terminals	All Terminals	All Terminals	All Terminals	Except Speaker B	Except Speaker B
DIGITAL OUT	✓ 1 Optical/1 Coaxial	✓ 2 Optical	✓ 1 Optical	✓ 1 Optical/1 Coaxial	✓ 1 Optical	
SLEEP TIMER (90 MINUTES; 10-MIN STEPS)	✓	✓	✓	✓	✓	✓
PHONO INPUT	✓	✓	✓	✓		
HEADPHONE JACK	✓	✓	✓	✓	✓	✓
ZONE 2 (MULTISOURCE) LINE OUT	✓ (Audio/Video)	✓ (Audio/Video)	✓ (Audio/Video)	Pre Out		
POWERED ZONE 2		✓		✓		
12 VOLT TRIGGER		1 (Zone 2)	1 (Zone 2)	1 (Zone 2)		
A/B SPEAKER DRIVE					A and B	A and B
<b>TUNER FEATURES</b>						
NUMBER OF PRESETS	40	40	40	40	40	30
RDS	✓	✓	✓	✓	✓	✓
<b>CONTROL</b>						
RI COMPATIBLE REMOTE CONTROL	Learning/Backlit/LCD	LCD/Touchscreen	Prepro/Learning/Backlit	Prepro/Learning/Backlit	Prepro/Learning	✓
MACRO FUNCTION	✓	✓	✓	✓	✓	
ABSOLUTE/RELATIVE VOLUME DISPLAY	✓	✓	✓	Absolute	Absolute	Absolute
INTELLIVOLUME	✓	✓	✓	✓	✓	
COLOR	Silver or Black	Silver or Black	Silver or Black	Silver or Black	Silver or Black	Silver or Black

\*Channels are measured separately \*\*Calculated on basis of IHF Dynamic headroom



# FEATURES

## DVD/CD PLAYERS

THX CERTIFIED	✓
DVD AUDIO DECODING	✓
DTS/DOLBY DIGITAL/MPEG/DIGITAL AUDIO OUTPUT	✓
PROGRESSIVE VIDEO OUTPUT	✓
DIRECT DIGITAL PATH	✓
96 kHz/48 kHz SELECTABLE DIGITAL OUTPUT	✓
RGB VIDEO OUTPUT	✓
MPEG PLAYBACK	✓
MP3 PLAYBACK	✓
PLAYBACK DAC	192 kHz/24-Bit
VIDEO D/A CONVERTER	54 MHz/10-Bit
VIDEO CIRCUIT ON/OFF CONTROL	✓
DYNAMIC RANGE CONTROL	✓
VIDEO BLACK LEVEL CONTROL	✓
DIGITAL OUTPUTS	2 Optical/2 Coaxial
ANALOG AUDIO OUTPUT	✓
CD-R/RW PLAYBACK CAPABILITY	✓
S-VIDEO OUTPUT	✓
PASSES PLUGE SIGNALS	✓
PICTURE MAGNIFICATION	✓ (6 steps)
PROGRAMMED MEMORY PLAYBACK	✓
8-LANGUAGE SOUNDTRACK CAPABILITY	✓
DIMMABLE DISPLAY	4-mode
COLOR	Silver or Black

## DV-S939

✓ (Ultra)
✓
✓
✓
✓
✓
✓
✓
✓
192 kHz/24-Bit
54 MHz/10-Bit
✓
✓
✓
2 Optical/2 Coaxial
✓
✓
✓
✓ (6 steps)
✓
✓
4-mode
Silver or Black

## DV-S757

✓ (Ultra)
✓
✓
✓
✓
✓
✓
✓
✓
192 kHz/24-Bit
54 MHz/10-Bit
✓
✓
✓
2 Optical/1 Coaxial
✓
✓
✓
✓
✓
3-mode
Silver or Black

## DV-S555

✓
✓
✓
✓
✓
✓
✓
✓
✓
192 kHz/24-Bit
27 MHz/10-Bit
✓
✓
✓
1 Optical/1 Coaxial
✓
✓
✓
✓
3-mode
Silver or Black

## DV-S205TX

✓
✓
✓
✓
✓
✓
✓
✓
✓
96 kHz/24-Bit
27 MHz/10-Bit
✓
✓
✓
2 Optical
✓
✓
✓
✓
✓
Silver

## CD RECEIVER

POWER OUTPUT STEREO (At 4 Ω, 1 kHz, DIN)	20 W/ch
DYNAMIC POWER* (4 Ω)	24 W
DISCRETE OUTPUT STAGE	✓
RDS (RADIO DATA SYSTEM)	✓
AUDIO INPUT/OUTPUT TERMINALS	3/3
NUMBER OF PRESETS	30
PRESET STATION NAMING	✓
AUTOMATIC TUNING	✓
HEADPHONE JACK	✓
CONVERTER	Single-bit D/A (CD)
RANDOM TRACK MEMORY	✓
NUMBER OF REPEAT MODES	3
SAMPLING RATE CONVERTER	✓
DIGITAL OUTPUT	1 Optical
SLEEP TIMER	✓
RI COMPATIBLE REMOTE	✓
COLOR	Silver

## CR-305TX

20 W/ch
24 W
✓
✓
3/3
30
✓
✓
✓
Single-bit D/A (CD)
✓
3
✓
1 Optical
✓
✓
Silver

## HOME STYLE COMPONENTS

### RECEIVER SECTION

POWER OUTPUT STEREO (At 6 Ω, 1 kHz, DIN)	35 W/ch
POWER OUTPUT STEREO (At 4 Ω, 1 kHz, DIN)	42 W/ch (6 Ω), 35W (8 Ω)
DYNAMIC POWER* (4 Ω)	
WIDE RANGE AMPLIFIER TECHNOLOGY (WRAT)	✓
DISCRETE OUTPUT STAGE	✓
LOW IMPEDANCE DRIVE	✓
RDS (RADIO DATA SYSTEM)	✓
AUDIO IN/OUTPUT TERMINALS	4/2
SUBWOOFER PRE OUT	✓
SURROUND MODES	12
NUMBER OF PRESETS	30
PRESET STATION NAMING	✓
DIRECT ACCESS TUNING	✓
ACOUSTIC CONTROL	2 Step
AUTOMATIC/MANUAL TUNING	✓
SLEEP TIMER	✓
HEADPHONE JACK	✓
RI COMPATIBLE REMOTE	✓
COLOR	Titan
USB PORT	

### DVD PLAYER SECTION

DTS/DOLBY DIGITAL/DIGITAL AUDIO OUTPUT	✓
MPEG PLAYBACK	✓
RGB VIDEO OUTPUT	✓
PLAYBACK DAC	96 kHz/24-Bit
VIDEO D/A CONVERTER	27 MHz/10-Bit
DYNAMIC RANGE CONTROL	✓
DIGITAL OUTPUTS	1 Optical
ANALOG AUDIO OUTPUT	✓
CD-R/RW PLAYBACK CAPABILITY	✓
MP3 PLAYBACK	✓
S-VIDEO OUTPUT	✓
PICTURE MAGNIFICATION	✓
PROGRAMMED MEMORY PLAYBACK	✓
8-LANGUAGE SOUNDTRACK CAPABILITY	✓
DIMMABLE DISPLAY	3-mode
COLOR	—

### CD PLAYBACK

SINGLE-BIT D/A CONVERTER	4
NUMBER OF REPEAT MODES	(Title Chapter/Track/A-B)
SHUFFLE/RANDOM PLAY	✓
DIRECT TRACK ACCESS	✓
DIGITAL OUTPUT (OPTICAL/COAXIAL)	1 Optical
ANALOG OUTPUT (VARIABLE/FIXED)	✓

## DR-S2.2

35 W/ch
42 W/ch (6 Ω), 35W (8 Ω)
✓
✓
✓
✓
4/2
✓
12
30
✓
✓
2 Step
✓
✓
✓
✓
Titan

## TX-L5

22 W/ch
26 W/ch (6 Ω)
✓
✓
✓
✓
5/3
✓
7
30
✓
✓
2 Step
✓
✓
✓
✓
Titan

## CR-N1

10 W/ch
11 W/ch
✓
✓
✓
✓
1/1
✓
30
✓
✓
2 Step
✓
✓
✓
✓
Titan

## DV-L5

✓
✓
✓
✓
192 kHz/24-Bit
27 MHz/10-Bit
✓
1 Optical/1 Coaxial
✓
✓
✓
✓
✓
✓
4-mode
Titan

## HI-FI RECEIVERS

POWER OUTPUT STEREO (At 4 Ω, 1 kHz, DIN)	70 W/ch
DYNAMIC POWER* (4 Ω)	90 W/ch
WIDE RANGE AMPLIFIER TECHNOLOGY (WRAT)	✓
DISCRETE OUTPUT STAGE	✓
LOW IMPEDANCE DRIVE	✓
RDS (RADIO DATA SYSTEM)	✓
AUDIO INPUT/OUTPUT TERMINALS	4/2
IN/OUT PROCESSOR JACKS	✓
SUBWOOFER PRE OUT	✓
NUMBER OF PRESETS	30
PRESET STATION NAMING	✓
ACCU CLOCK	✓
DIRECT ACCESS TUNING	✓
AUTOMATIC/MANUAL TUNING	✓
HEADPHONE JACK	✓
SLEEP TIMER	✓
RI COMPATIBLE REMOTE	✓
COLOR	Silver or Black

## TX-8211

70 W/ch
90 W/ch
✓
✓
✓
✓
4/2
✓
30
✓
✓
✓
✓
✓
✓
✓
✓
Silver or Black

## R-805TX

20 W/ch
24 W/ch
✓
✓
✓
✓
5/3
✓
30
✓
✓
✓
✓
✓
✓
✓
✓
Silver

## R-801A

20 W/ch
21 W/ch
✓
✓
✓
✓
4/3
✓
30
✓
✓
✓
✓
✓
✓
✓
✓
Silver

## HARD DISK MUSIC LIBRARY

HARD DISC CAPACITY	20 GB
LONG MODE (MP3/96 kbps)	450 Hours
STANDARD MODE (MP3/128 kbps)	350 Hours
HI-QUALITY MODE (MP3/192 kbps)	230 Hours
SUPPER HI-QUALITY MODE (PCM)	35 Hours
RECORDING MODE	PCM/96 kbps/128 kbps/192 kbps
TIMER RECORDING/PLAY	✓
RANDOM ACCESS	✓
QUICK RECORDING (PCM TO PCM)	x 5 Speed
QUICK RECORDING (MP3M TO MP3)	x 50 Speed
CD-ROM/CD PLAYBACK	✓
SORTING	5 Modes
EDITING	Title/Category/Album/Artist
SAMPLING RATE CONVERSION	32/44.1/48 kHz
D/A CONVERSION	16 bit/48 kHz
A/D CONVERSION	16 bit/48 kHz
USB INPUT/OUTPUT	1 Up/1 Down
DIGITAL INPUT	1 Optical/1 Coaxial
DIGITAL OUTPUT	1 Optical (CD/CD-ROM Only)
ANALOG INPUT	1 RCA
ANALOG OUTPUT	1 RCA (Fixed)
SOFTWARE	Carry Tunes
COLOR	Titan

## MB-S1

20 GB
450 Hours
350 Hours
230 Hours
35 Hours
PCM/96 kbps/128 kbps/192 kbps
✓
✓
x 5 Speed
x 50 Speed
✓
5 Modes
Title/Category/Album/Artist
32/44.1/48 kHz
16 bit/48 kHz
16 bit/48 kHz
1 Up/1 Down
1 Optical/1 Coaxial
1 Optical (CD/CD-ROM Only)
1 RCA
1 RCA (Fixed)
Carry Tunes
Titan

\* Calculated on basis of IHF Dynamic headroom

## FEATURES

CD PLAYERS	C-705TX	C-701A	DX-7333	DX-C380	A/V SURROUND PROCESSOR	ED-205
SINGLE-BIT D/A CONVERTER	✓	✓	✓	✓	POWER OUTPUT	
ACCUPULSE QUARTZ SYSTEM					CENTER (AT 6 $\Omega$ , 1 kHz, DIN)	22 W
6-DISC CHANGER				Carousel	REAR (AT 6 $\Omega$ , 1 kHz, DIN)	22 W/ch
PEAK SEARCH	✓ (DLA Link)	✓ (DLA Link)	by remote	by remote	DOLBY PRO LOGIC	✓
MEMORY REVERSE			✓		SURROUND MODES	3
NUMBER OF REPEAT MODES	4	4	5	6	ADJUSTABLE DIGITAL DELAY	✓
RANDOM TRACK MEMORY	25	25	36	40	5.1 MULTICHANNEL INPUT	✓
SHUFFLE/RANDOM PLAY	by remote (Random)	by remote	by remote	by remote	SUBWOOFER PREOUT	✓
DIRECT TRACK ACCESS	by remote	by remote	by remote	by remote	S-VIDEO & COMPOSITE INPUTS/OUTPUTS	✓
TIME EDIT			✓		MASTER VOLUME CONTROL	✓
DIGITAL OUTPUT (OPTICAL/COAXIAL)	Optical	2 Optical	2 Optical 1 Coaxial	Optical	6-CHANNEL TEST TONE	✓
ANALOG OUTPUT (FIXED)	✓	✓	✓	✓	THICK-GAUGE METAL CHASSIS	✓
HEADPHONE JACK WITH VOLUME CONTROL			✓		LARGE 17-SEGMENT FL DISPLAY	✓
RI COMPATIBLE REMOTE	✓	✓	✓	✓	LARGE NON-RESONANT FEET	✓
COLOR	Silver	Silver	Silver or Black	Silver or Black	RIBBED SIDE PANELS	✓
					REMOTE CONTROL	✓
					COLOR	Silver

CD RECORDERS	CDR-205TX	CDR-201A	DX-R700	CASSETTE DECKS	K-505TX	TA-RW244	K-501A
CD/CD-R/CD-RW DISCS PLAYBACK CAPABILITY	✓	✓	✓	NUMBER OF MOTORS	1	1 + 1	1
HIGH SPEED FINALIZATION	✓	✓	✓	NUMBER OF TAPE HEADS	2	1 + 2	2
AUTO FINALIZING FUNCTION	✓	✓	✓	DOUBLE CASSETTE DECK		✓	
D/A CONVERTER	24-Bit	24-Bit	24-Bit	HIGH-SPEED DUBBING		✓	
ANALOG INPUT (STEREO)	1	1	1	DOUBLE AUTO REVERSE		✓	
ANALOG OUTPUT (STEREO)	1	1	1	AUTO REVERSE	✓		✓
DIGITAL INPUT (STEREO)	2 Optical	2 Optical	1 Optical 1 Coaxial	CONTINUOUS PLAY		✓	
DIGITAL OUTPUT	1 Optical	1 Optical	1 Optical 1 Coaxial	REC LEVEL CONTROLS	✓	✓	
MULTI JOG	✓	✓	✓	CD SYNCHRO RECORDING	✓	✓	✓
MULTI TRACK ERASE	✓		✓	REPEAT PLAY		✓	
CD-TEXT	✓	✓	✓	MUSIC SEARCH	✓		✓
HEADPHONE JACK WITH VOLUME CONTROL			✓	DOLBY B/C NOISE REDUCTION	✓	✓	✓
REMOTE CONTROL	✓	✓	✓	DOLBY HX PRO	✓		✓
COLOR	Silver	Silver	Silver or Black	ELECTRONIC COUNTER	✓	✓	
				FLUORESCENT DISPLAY	✓	✓	
				RI REMOTE SYSTEM	✓	✓	✓
				COLOR	Silver	Silver or Black	Silver

INTEGRATED AMPLIFIER	A-9211	TUNER	T-4211
POWER OUTPUT (AT 4 $\Omega$ , 1 kHz, DIN)	60 W/ch	RDS (RADIO DATA SYSTEM)	✓
DYNAMIC POWER* (4 $\Omega$ )	80 W/ch	NUMBER OF PRESETS	30
DISCRETE OUTPUT STAGE	✓	APR (AUTOMATIC PRECISION RECEPTION)	2-mode
AUDIO INPUTS/OUTPUTS	6/2	GROUP MEMORY	3
HIGH QUALITY REMOTE CONTROL	✓	DIRECT ACCESS TUNING	✓
TAPE DUBBING	✓	AUTOMATIC/MANUAL TUNING	✓
TONE BYPASS CONTROL	✓	PRESET SCAN	✓
TWO SETS OF SPEAKER OUTPUTS	✓	10-SEGMENT SIGNAL STRENGTH INDICATOR	5-segment
HEAVY-DUTY MULTIWAY BINDING POSTS	✓	RECEPTION MODE INDICATORS	✓
HEADPHONE JACK	✓	RI REMOTE SYSTEM	✓
RI COMPATIBLE REMOTE	✓	COLOR	Silver or Black
COLOR	Silver or Black		

SPEAKERS		SKS-101		SL-105	D-052AX	D-032A
TYPE	Center Speaker Dual Full Range, Bass Reflex	Surround Speaker Full Range, Air Suspension		Bass Reflex	2-Way, Bass Reflex	2-Way, Bass Reflex
NOMINAL IMPEDANCE	6 Ω	6 Ω		5 Ω	4 Ω	6 Ω
INPUT IMPEDANCE	—	—		4.7 kΩ/Speaker, 12 kΩ/Line	—	—
MAX. POWER	100 W	100 W		60 W	70 W	70 W
FREQUENCY RESPONSE	63 Hz-20 kHz	100 Hz-20 kHz		30 Hz-200 Hz	55 Hz-35 kHz	55 Hz-35 kHz
DRIVERS: WOOFER	Full Range 10 cm Cone x 2	Full Range 10 cm Cone		20 cm Cone	13 cm OMF Cone	12 cm Bio-Hybrid Cone
TWEETER	—	—		—	2.5 cm Soft-Dome	2.5 cm Soft-Dome
SPEAKERS		D-L5	D-N1	SKW-205	D-N5	
TYPE		Full Range, Bass Reflex	2-Way, Bass Reflex	Bass Reflex	2-Way, Bass Reflex	
NOMINAL IMPEDANCE		6 Ω	4 Ω	6 Ω	6 Ω	
INPUT IMPEDANCE		—	—	4.7 kΩ/Speaker, 12 kΩ/Line	—	
MAX. POWER		40 W	30 W	75 W	70 W	
FREQUENCY RESPONSE		125 Hz-25 kHz	63 Hz-35 kHz	30 Hz-200 Hz	50 Hz-40 kHz	
DRIVERS: WOOFER		8 cm Cone	9 cm OMF Cone	20 cm Cone	12 cm OMF Cone	
TWEETER		—	2.5 cm Soft-Dome	—	2.5 cm Balanced-Dome	

\* Calculated on basis of IHF Dynamic headroom



# SPECIFICATIONS

A/V RECEIVERS	TX-DS989	TX-DS898	TX-DS797	TX-SR700E	TX-SR600E	TX-SR500E
<b>AMPLIFIER SECTION</b>						
<b>Power Output*</b> (6 $\Omega$ 1 kHz DIN)						
Front L/R	160 W/ch	150 W/ch	135 W/ch	130 W/ch	115 W/ch	85 W/ch
Center	160 W	150 W	135 W	130 W	115 W	85 W
Surround L/R	160 W/ch	150 W/ch	135 W/ch	130 W/ch	115 W/ch	85 W/ch
Surround Back L/R	160 W/ch	150 W/ch	135 W	130 W	115 W	—
<b>Dynamic Power**</b>						
4 $\Omega$ /8 $\Omega$ (front)	230 W/ch/150 W/ch	220 W/ch/140 W/ch	210 W/ch/130 W/ch	170 W/ch/115 W/ch	160 W/ch/95 W/ch	125 W/ch/85 W/ch
<b>THD (Rated Power)</b>	0.05 % (all channels)	0.08 % (all channels)	0.08 % (all channels)	0.08 % (all channels)	0.08 % (all channels)	0.08 % (all channels)
<b>Damping Factor (1 kHz, 8 <math>\Omega</math>)</b>	60	60	60	60	60	60
<b>Input Sensitivity and Impedance</b>						
PHONO MM	2.5 mV, 50 k $\Omega$	2.5 mV, 50 k $\Omega$	2.5 mV, 50 k $\Omega$	2.5 mV, 47 k $\Omega$	—	—
CD and TAPE Play	200 mV, 50 k $\Omega$	200 mV, 50 k $\Omega$	200 mV, 50 k $\Omega$	200 mV, 47 k $\Omega$	200 mV, 47 k $\Omega$	200 mV, 50 k $\Omega$
<b>Output Level and Impedance</b>						
TAPE REC	200 mV, 2.2 k $\Omega$	200 mV, 470 $\Omega$	200 mV, 470 $\Omega$	200 mV, 470 $\Omega$	200 mV, 470 $\Omega$	200 mV, 470 $\Omega$
PREOUT	1.0 V, 470 $\Omega$	1.0 V, 470 $\Omega$	1.0 V, 470 $\Omega$	1.0 V, 470 $\Omega$	1.0 V, 470 $\Omega$	1.0 V, 470 $\Omega$
<b>Frequency Response</b>	20 Hz-30 kHz $\pm$ 1 dB 5 Hz-100 kHz $\pm$ 1 dB, -3 dB	10 Hz-100 kHz $\pm$ 1 dB, -3 dB	10 Hz-100 kHz $\pm$ 1 dB, -3 dB	10 Hz-100 kHz $\pm$ 1 dB, -3 dB	10 Hz-100 kHz $\pm$ 1 dB, -3 dB	10 Hz-100 kHz $\pm$ 1 dB, -3 dB
<b>S/N Ratio</b>						
PHONO (MM)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	80 dB (IHF-A, 5 mV input)	—	—
CD/TAPE	100 dB (IHF-A, 0.5 V input)	110 dB (IHF-A, 0.5 V input)	110 dB (IHF-A, 0.5 V input)	100 dB (IHF-A, 0.5 V input)	100 dB (IHF-A)	100 dB (IHF-A)
<b>Phono Overload (1 kHz)</b>	110 mV RMS, 0.5 % THD	120 mV RMS, 0.5 % THD	120 mV RMS, 0.5 % THD	70 mV RMS, 0.5 % THD	—	—
<b>Tone Controls</b>						
BASS	$\pm$ 10 dB at 100 Hz	$\pm$ 10 dB at 50 Hz	$\pm$ 10 dB at 50 Hz	$\pm$ 12 dB at 50 Hz	$\pm$ 12 dB at 50 Hz	$\pm$ 12 dB at 50 Hz
TREBLE	$\pm$ 10 dB at 10 kHz	$\pm$ 10 dB at 20 kHz	$\pm$ 10 dB at 20 kHz	$\pm$ 12 dB at 20 kHz	$\pm$ 12 dB at 20 kHz	$\pm$ 12 dB at 20 kHz
<b>TUNER SECTION</b>						
<b>Usable Sensitivity</b>						
FM Mono	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)
FM Stereo	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)
AM	30 $\mu$ V	30 $\mu$ V	30 $\mu$ V	30 $\mu$ V	30 $\mu$ V	30 $\mu$ V
<b>S/N Ratio</b>						
FM Mono	76 dB (IHF-A)	76 dB (IHF-A)	76 dB (IHF-A)	76 dB (IHF-A)	76 dB (IHF-A)	76 dB (IHF-A)
FM Stereo	70 dB (IHF-A)	70 dB (IHF-A)	70 dB (IHF-A)	70 dB (IHF-A)	70 dB (IHF-A)	70 dB (IHF-A)
AM	40 dB	40 dB	40 dB	40 dB	40 dB	40 dB
<b>Total Harmonic Distortion/</b>						
FM Mono	0.2 %	0.2 %	0.2 %	0.2 %	0.2 %	0.2 %
FM Stereo	0.3 %	0.3 %	0.3 %	0.3 %	0.3 %	0.3 %
AM	0.7 %	0.7 %	0.7 %	0.7 %	0.7 %	0.7 %
<b>FM Stereo Separation</b>	45 dB at 1 kHz 30 dB at 100 Hz-10 kHz	45 dB at 1 kHz 30 dB at 100 Hz-10 kHz	45 dB at 1 kHz 30 dB at 100 Hz-10 kHz	45 dB at 1 kHz 30 dB at 100 Hz-10 kHz	45 dB at 1 kHz 30 dB at 100 Hz-10 kHz	45 dB at 1 kHz 30 dB at 100 Hz-10 kHz
<b>GENERAL</b>						
<b>Dimensions (W x H x D)</b>	435 x 196 x 451 mm 17-1/8" x 7-11/16" x 17-3/4"	435 x 175 x 459 mm 17-1/8" x 6-7/8" x 18-1/16"	435 x 175 x 459 mm 17-1/8" x 6-7/8" x 18-1/16"	435 x 175 x 431.5 mm 17-1/8" x 6-7/8" x 16-15/16"	435 x 175 x 431.5 mm 17-1/8" x 6-7/8" x 16-15/16"	435 x 150 x 376 mm 17-1/8" x 5-7/8" x 14-13/16"
<b>Weight</b>	22.0 kg/48.5 lbs.	17.9 kg/39.5 lbs.	17.3 kg/38.1 lbs.	13.5 kg/29.8 lbs.	13.1 kg/28.8 lbs.	8.8 kg/19.4 lbs.
<b>DVD/CD PLAYERS</b>						
<b>Power Supply</b>	230 V AC, 50 Hz	100-240 V AC, 50/60 Hz	100-240 V AC, 50 Hz	100-240 V AC, 50 Hz	<b>CD RECEIVER</b>	
<b>Power Consumption</b>	40 W	16 W	15 W	19 W	<b>CR-305TX</b>	
<b>Linear Velocity</b>					<b>AMPLIFIER SECTION</b>	
Single layer	3.49 m/s	3.49 m/s	3.49 m/s	3.49 m/s	<b>Power Output (4 <math>\Omega</math> 1 kHz DIN)</b>	
Dual layer	3.84 m/s	3.84 m/s	3.84 m/s	3.84 m/s	<b>Dynamic Power*</b>	
					4 $\Omega$ /8 $\Omega$ (front)	
					24 W/ch/18 W/ch	
<b>Frequency Response</b>					<b>THD (Rated Power)</b>	
(Digital Audio)					10 Hz-50 kHz $\pm$ 0 dB, -3 dB	
DVD Linear Sound	48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 96 kHz (DVD Audio)	48 kHz sampling 4 Hz to 44 kHz 96 kHz sampling 4 Hz to 96 kHz (DVD Audio)	48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 44 kHz	48 kHz sampling 4 Hz to 22 kHz 96 kHz sampling 4 Hz to 44 kHz	<b>S/N Ratio TAPE/LINE</b>	
Audio CD	44.1 kHz sampling 4 Hz to 20 kHz 112 dB	44.1 kHz sampling 4 Hz to 20 kHz 106 dB	44.1 kHz sampling 4 Hz to 20 kHz 100 dB	44.1 kHz sampling 4 Hz to 20 kHz 100 dB	<b>TUNER SECTION</b>	
<b>S/N Ratio (Digital Audio)</b>					<b>Usable Sensitivity</b>	
Audio Dynamic Range (Digital Audio)	106 dB	100 dB	96 dB	98 dB	FM Mono	
Harmonic Distortion (Digital Audio) (1 kHz)	0.002 %	0.005 %	0.015 %	0.005 %	FM Stereo	
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability	AM	
<b>Video Output</b>	1.0 V p-p, 75 $\Omega$ , negative sync., pin jack x 2, Scart x 1	1.0 V p-p, 75 $\Omega$ , negative sync., pin jack x 2, Scart x 1	1.0 V p-p, 75 $\Omega$ , negative sync., pin jack x 1, Scart x 1	1.0 V p-p, 75 $\Omega$ , negative sync., pin jack x 1	<b>S/N Ratio</b>	
<b>S-Video Output</b>	(C) 0.286 V p-p, 75 $\Omega$ , (Y) 1.0 V p-p, 75 $\Omega$ , negative sync., Mini DIN 4-pin x 2, Scart x 1	(C) 0.286 V p-p, 75 $\Omega$ , (Y) 1.0 V p-p, 75 $\Omega$ , negative sync., Mini DIN 4-pin x 2, Scart x 1	(C) 0.286 V p-p, 75 $\Omega$ , (Y) 1.0 V p-p, 75 $\Omega$ , negative sync., Mini DIN 4-pin x 1, Scart x 1	(C) 0.286 V p-p, 75 $\Omega$ , (Y) 1.0 V p-p, 75 $\Omega$ , negative sync., Mini DIN 4-pin x 1	<b>Total Harmonic Distortion</b>	
<b>RGB Video Output</b>	0.7 V p-p, 75 $\Omega$ , Scart x 1	0.7 V p-p, 75 $\Omega$ , Scart x 1	0.7 V p-p, 75 $\Omega$ , Scart x 1	—	FM Mono	
<b>Audio Output</b>					FM Stereo	
Optical Audio	-22.5 dBm x 2	-22.5 dBm x 2	-22.5 dBm x 1	-22.5 dBm x 2	AM	
Digital Audio	0.5 V p-p, 75 $\Omega$ , pin-jack x 2	0.5 V p-p, 75 $\Omega$ , pin-jack x 1	0.5 V p-p, 75 $\Omega$ , pin-jack x 1	2.0 V RMS, 470 $\Omega$ , pin jack (6 ch) x 1	<b>FM Stereo Separation</b>	
Analog Audio	2.0 V RMS, 320 $\Omega$ , pin jack (5.1 ch) x 1, pin jack (L, R) x 2, Scart x 1	2.0 V RMS, 440 $\Omega$ , pin jack (5.1 ch) x 1, pin jack (L, R) x 2, Scart x 1	2.0 V RMS, 470 $\Omega$ , pin jack (L, R) x 1, Scart x 1	pin jack (L, R) x 1	<b>CD SECTION</b>	
<b>Headphone Terminal</b>	—	32 $\Omega$ (30 mW)	—	—	<b>Digital Filter</b>	
<b>Dimensions (W x H x D)</b>	436 x 120 x 375 mm	435 x 91 x 314 mm	435 x 91 x 310 mm	205 x 91 x 339 mm	352.8 kHz, 8 x oversampling	
<b>Weight</b>	11 kg	3.6 kg	3.4 kg	2.5 kg	<b>Frequency Response</b>	
<b>Supplied Accessories</b>	Audio/Video Cable x 1, S-Video Cable x 1, DB-25 Cable x 1, Scart cable x 1, Remote control (RC-438DV) x 1	Audio/Video Cable x 1, S-Video Cable x 1, Scart cable x 1, Remote control (RC-450DV) x 1	Audio/Video Cable x 1, S-Video Cable x 1, Scart cable x 1, Remote control (RC-449DV) x 1	S-Video Cable x 1, Audio Cable x 1, Video Cable x 1, Remote control (RC-464DV) x 1	<b>GENERAL</b>	
					<b>Dimensions (W x H x D)</b>	
					205 x 103 x 362 mm	
					<b>Weight</b>	
					4.0 kg	

\* Channels are measured separately \*\* Calculated on basis of IHF Dynamic headroom



# SPECIFICATIONS

HOME STYLE COMPONENTS	DR-S2.2	TX-L5	CR-N1
RECEIVER SECTION			
AMPLIFIER SECTION			
Power Output (6 $\Omega$ , 1 kHz, DIN)	35 W/ch	22 W/ch	—
Power Output (4 $\Omega$ , 1 kHz, DIN)	—	—	10 W/ch
Dynamic Power* 4 $\Omega$ /8 $\Omega$ (front)	42 W/ch (6 $\Omega$ )/35 W/ch	26 W/ch (6 $\Omega$ )/22 W/ch	11 W/ch/9 W/ch
THD (Rated Power/1 W Output)	5 %/0.2 %	0.6 %	0.4 %
Frequency Response	20 Hz-30 kHz ( $\pm$ 0.8 dB)	10 Hz-70 kHz ( $\pm$ 1.5 dB)	10 Hz-50 kHz ( $\pm$ 3 dB)
S/N Ratio	100 dB (IHF-A)	100 dB (IHF-A)	95 dB (IHF-A)
TUNER SECTION			
Usable Sensitivity			
FM Mono	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)
FM Stereo	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)
AM	30 $\mu$ V	30 $\mu$ V	30 $\mu$ V
S/N Ratio			
FM Mono	73 dB	76 dB	73 dB
FM Stereo	IHF-A/67 dB	IHF-A/70 dB	IHF-A/67 dB
AM	IHF-A/40 dB	IHF-A/40 dB	IHF-A/40 dB
Total Harmonic Distortion			
FM Mono/FM Stereo/AM	0.2 %/0.3 %/0.7 %	0.2 %/0.3 %/0.7 %	0.2 %/0.3 %/0.7 %
FM Stereo Separation	45 dB at 1 kHz 30 dB at 100 Hz-10 kHz	45 dB at 1 kHz	35 dB at 1 kHz
GENERAL			
Dimensions (W x H x D)	435 x 101 x 428 mm	435 x 81 x 377 mm	203 x 270 x 234 mm
Weight	8.8 kg	6.5 kg	4.2 kg
DVD SECTION			
DV-L5			
Power Supply	230-240 V AC, 50 Hz	100-240 V AC, 50/60 Hz	—
Power Consumption	170 W	12 W	—
Signal Readout System	Optical non-contact	Optical non-contact	—
Linear Velocity			
Single Layer/Dual Layer	3.49 m/s/3.84 m/s	3.49 m/s/3.84 m/s	—
Frequency Range (Digital Audio)			
DVD Linear Sound	4 Hz-22 kHz (48 kHz), 4 Hz-44 kHz (96 kHz) 4 Hz-20 kHz (44.1 kHz)	48 kHz sampling 4 Hz to 44 kHz	—
Audio CD			
Harmonic Distortion (1 kHz)	0.025 %	0.015 %	—
Audio Dynamic Range	93 dB	96 dB	—
S/N Ratio	100 dB	100 dB	—
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	—
Video Output	1.0 V p-p, 75 $\Omega$ , negative sync.	1.0 V p-p, 75 $\Omega$ , negative sync., pin jack x 1, Scart x 1	—
S-Video Output	(Y) 1.0 Vp-p, 75 $\Omega$ , (C) 0.28 Vp-p, 75 $\Omega$	(C) 0.286 V p-p, 75 $\Omega$ , (Y) 1.0 V p-p, 75 $\Omega$ , negative sync., Mini DIN 4-pin x 1, Scart x 1	—
RGB Video Output	0.7 Vp-p, 75 $\Omega$ , Scart x 1	0.7 V p-p, 75 $\Omega$ , Scart x 1	—
Audio Output			
Optical Audio	—	- 22.5 dBm x 1 0.5 V p-p, 75 $\Omega$ , pin-jack x 1	—
Digital Audio	0.5 V p-p, 75 $\Omega$	2.0 V RMS, 470 $\Omega$ , pin jack (L, R) x 1, Scart x 1	—
Analog Audio	—	—	—
Supplied Accessories	Audio/Video Cable x 1, S-VideoCable x 1, Scart cable x 1, Remote control (RC-484M) x 1	Audio/Video Cable x 1, S-VideoCable x 1, Scart cable x 1, Remote control (RC-450DV) x 1	Remote control (RC-454S) x 1
COMPACT DISC SECTION			
Signal Readout System	Optical non-contact	Optical non-contact	Optical non-contact
Reading rotation	About 500-200 r.p.m. (Constant linear velocity)	About 500-200 r.p.m. (Constant linear velocity)	About 500-200 r.p.m. (Constant linear velocity)
Linear Velocity	3.49 m/s (Single Layer) 3.84 m/s (Dual Layer)	3.49 m/s (Single Layer) 3.84 m/s (Dual Layer)	1.2-1.4 m/s
Error Correction System	Reed Solomon Product Code	Reed Solomon Product Code	Cross Interleave Reed Solomon Code
D/A Converter	192 kHz/24-Bit	192 kHz/24-Bit	1-Bit
Number of Channels	2 (stereo)	2 (stereo)	2 (stereo)
Digital Filter	352.8 kHz, 8 x oversampling	352.8 kHz, 8 x oversampling	352.8 kHz, 8 x oversampling
Frequency Response	4 Hz-44 kHz	4 Hz-44 kHz	5 Hz-20 kHz
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	Below threshold of measurability
USB SECTION			
Sampling rate (Input)	—	—	32/44.1/48 kHz compatible
Frequency Response	—	—	5 Hz-20 kHz
GENERAL			
Dimensions (W x H x D)	—	435 x 81 x 359 mm	—
Weight	—	3.9 kg	—
HI-FI RECEIVERS			
AMPLIFIER SECTION			
Power Output (4 $\Omega$ 1 kHz DIN)	70 W/ch	20 W/ch	20 W/ch
Dynamic Power* 4 $\Omega$ /8 $\Omega$ (front)	90 W/ch/55 W/ch	24 W/ch/17 W/ch	21 W/ch/14 W/ch
THD (Rated Power)	0.08 %	0.6 %	0.8 %
Frequency Response	20 Hz-30 kHz ( $\pm$ 1 dB)	10 Hz-50 kHz ( $\pm$ 0 dB - 3 dB)	10 Hz-100 kHz ( $\pm$ 0 dB - 3 dB)
S/N Ratio CD/TAPE	100 dB (IHF-A)	100 dB (IHF-A)	100 dB (IHF-A)
TUNER SECTION			
Usable Sensitivity			
FM Mono	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)	11.2 dBf, 1.0 $\mu$ V (75 $\Omega$ IHF)
FM Stereo	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)	17.2 dBf, 2.0 $\mu$ V (75 $\Omega$ IHF)
AM	30 $\mu$ V	30 $\mu$ V	30 $\mu$ V
S/N Ratio			
FM Mono	76 dB (IHF-A)	73 dB (IHF-A)	73 dB (IHF-A)
FM Stereo	70 dB (IHF-A)	67 dB (IHF-A)	67 dB (IHF-A)
AM	40 dB	40 dB	40 dB
Total Harmonic Distortion			
FM Mono	0.15 %	0.2 %	0.2 %
FM Stereo	0.25 %	0.3 %	0.3 %
AM	0.7 %	0.7 %	0.7 %
FM Stereo Separation	45 dB at 1 kHz	45 dB at 1 kHz	45 dB at 1 kHz
GENERAL			
Dimensions (W x H x D)	435 x 150 x 322 mm	205 x 91 x 302 mm	155 x 94 x 286 mm
Weight	8.3 kg	3.4 kg	3.0 kg
HARD DISK MUSIC LIBRARY			
MB-S1			
Hard Disc Capacity	20 GB		
Long Mode	450 Hours (MP3/96 kbps)		
Standard Mode	350 Hours (MP3/128 kbps)		
Hi-Quality Mode	230 Hours (MP3/192 kbps)		
Supper Hi-Quality Mode	35 Hours (PCM)		
Frequency Response	5 Hz-20 kHz ( $\pm$ 1.0 dB)		
Total Harmonic Distortion	0.007 %		
Dynamic Range	90 dB		
S/N Ratio	90 dB		
Channel Separation	90 dB at 1 kHz		
Output Level	2.0 V RMS		
Output Impedance	470 $\Omega$		
Power Supply	AC 100-240 V, 50/60 Hz		
Power Consumption	24 W		
Sampling Rate Conversion	32/44.1/48 kHz		
GENERAL			
Dimensions (W x H x D)	435 x 81 x 348 mm		
Weight	5.0 kg		
CD PLAYERS			
C-705TX			
Digital Filter	352.8 kHz, 8 x oversampling	352.8 kHz, 8 x oversampling	
Frequency Response	5 Hz-20 kHz	5 Hz-20 kHz	
S/N Ratio	90 dB	80 dB	
Dynamic Range	96 dB	88 dB	
Total Harmonic Distortion (1 kHz)	0.005 %	0.007 %	
Channel Separation (1 kHz)	85 dB	80 dB	
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	
Dimensions (W x H x D)	205 x 91 x 275 mm	155 x 76 x 277.5 mm	
Weight	2.2 kg	1.95 kg	
CD PLAYERS			
DX-7333			
Digital Filter	352.8 kHz, 8 x oversampling	352.8 kHz, 8 x oversampling	
Frequency Response	5 Hz-20 kHz	5 Hz-20 kHz	
S/N Ratio	90 dB	92 dB	
Dynamic Range	96 dB	96 dB	
Total Harmonic Distortion (1 kHz)	0.005 %	0.005 %	
Channel Separation (1 kHz)	85 dB	92 dB	
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	
Dimensions (W x H x D)	435 x 91 x 308 mm	435 x 131 x 433 mm	
Weight	4.1 kg	6.9 kg	
CD PLAYERS			
DX-C380			
Digital Filter	352.8 kHz, 8 x oversampling	352.8 kHz, 8 x oversampling	
Frequency Response	5 Hz-20 kHz	5 Hz-20 kHz	
S/N Ratio	90 dB	92 dB	
Dynamic Range	96 dB	96 dB	
Total Harmonic Distortion (1 kHz)	0.005 %	0.005 %	
Channel Separation (1 kHz)	85 dB	92 dB	
Wow and Flutter	Below threshold of measurability	Below threshold of measurability	
Dimensions (W x H x D)	435 x 91 x 308 mm	435 x 131 x 433 mm	
Weight	4.1 kg	6.9 kg	

\* Calculated on basis of IHF Dynamic headroom

# SPECIFICATIONS

A/V SURROUND PROCESSOR	ED-205	CD RECORDERS	CDR-205TX	CDR-201A	DX-R700
<b>Power Output</b> (6 Ω, 1kHz, DIN) Center/Rear	22 W/22 W	<b>Signal Readout System</b> Optical non-contact	Optical non-contact	Optical non-contact	Optical non-contact
<b>Total Harmonic Distortion (Rated Power)</b> Center/Rear	0.8 %/0.8 %	<b>Reading Rotation</b> About 200-550 RPM	About 200-550 RPM	About 200-550 RPM	About 200-550 RPM
<b>Sensitivity and Impedance</b> Audio Processor In Video-1/2 In Multichannel Input Processor Out Video-2 Out Video Video-1/2 In	300 mV 50 kΩ 300 mV 50 kΩ 300 mV 50 kΩ 300 mV 1 kΩ 300 mV 2.2 kΩ Composite 1.0 V p-p 75 Ω S-Video (C) 0.28 V p-p 75 Ω (Y) 1.0 V p-p 75 Ω	<b>Liner Velocity</b> 1.2-1.4 m/s	1.2-1.4 m/s	1.2-1.4 m/s	1.2-1.4 m/s
Video-2 Out	Composite 1.0 V p-p 75 Ω S-Video (C) 0.28 V p-p 75 Ω (Y) 1.0 V p-p 75 Ω	<b>Digital Filter</b> 128 x oversampling	8 x oversampling	128 x oversampling	128 x oversampling
Monitor Out	Composite 1.0 V p-p 75 Ω S-Video (C) 0.28 V p-p 75 Ω (Y) 1.0 V p-p 75 Ω	<b>Frequency Response</b> 5 Hz-20 kHz	10 Hz-20 kHz	5 Hz-20 kHz	5 Hz-20 kHz
<b>Frequency Response</b> Center Rear	20 Hz-20 kHz (± 1 dB) 100 Hz-7 kHz (± 1 dB)	<b>Total Harmonic Distortion</b> Playback (1 kHz) Recording (1 kHz)	0.004 % 0.006 %	0.012 % 0.015 %	0.004 % 0.006 %
<b>S/N Ratio (IHF-A)</b> Center/Rear	80 dB/75 dB	<b>Dynamic Range</b> Playback Recording	98 dB 92 dB	98 dB 92 dB	98 dB 92 dB
<b>Dimensions (W x H x D)</b>	205 x 76 x 350 mm	<b>S/N Ratio</b> Playback Recording	98 dB 94 dB	98 dB 82 dB	98 dB 94 dB
<b>Weight</b>	3.7 kg	<b>Channel Separation</b> Wow and Flutter	90 dB Below threshold of measurability	75 dB Below threshold of measurability	90 dB Below threshold of measurability
		<b>Output Level</b> 2.0 V RMS	2.0 V RMS	2.0 V RMS	2.0 V RMS
		<b>Power Supply</b> AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz	AC 230 V, 50 Hz
		<b>Power Consumption</b> 12 W	11 W	12 W	12 W
		<b>Dimensions (W x H x D)</b> 205 x 76 x 305 mm	155 x 94 x 307 mm	435 x 91 x 314 mm	435 x 91 x 314 mm
		<b>Weight</b> 2.5 kg	2.8 kg	4.2 kg	4.2 kg
		<b>Supplied Accessories</b> Analog audio cable x 2, Digital optical cable x 1, Remote control x 1	Analog audio cable x 2, Digital optical cable x 1, Remote control x 1	Analog audio cable x 2, Digital optical cable x 1, Remote control x 1	Analog audio cable x 2, Digital optical cable x 1, Remote control x 1

CASSETTE DECKS	K-505TX	TA-RW244	K-501A	INTEGRATED AMPLIFIER	A-9211	TUNER	T-4211
<b>Wow and Flutter (WRMS)</b>	0.1 %	0.08 %	0.1 %	<b>Power Output</b> (4 Ω, 1 kHz, DIN) 60 W/ch	60 W/ch	<b>Tuning Range</b> FM 87.50-108.00 MHz (50 kHz steps)	87.50-108.00 MHz (50 kHz steps)
<b>Frequency Response</b> METAL	20 Hz-16 kHz (30 Hz-15 kHz ± 3 dB)	20 Hz-17 kHz (30 Hz-16 kHz ± 3 dB)	30 Hz-15 kHz (± 3 dB)	<b>Dynamic Power*</b> 4 Ω/8 Ω	80 W/ch/55 W/ch	AM 522-1611 kHz (9 kHz steps)	522-1611 kHz (9 kHz steps)
HIGH	20 Hz-15 kHz (30 Hz-14 kHz ± 3 dB)	20 Hz-16 kHz (30 Hz-15 kHz ± 3 dB)	30 Hz-14 kHz (± 3 dB)	<b>Total Harmonic Distortion (Rated Power)</b> 0.08 %	0.08 %	<b>Usable Sensitivity</b> FM Mono 11.2 dBf, 0.9 μV 75 Ω DIN	11.2 dBf, 0.9 μV 75 Ω DIN
NORMAL	20 Hz-14 kHz (30 Hz-13 kHz ± 3 dB)	20 Hz-15 kHz (30 Hz-14 kHz ± 3 dB)	30 Hz-13 kHz (± 3 dB)	<b>Damping Factor (8 Ω, 1 kHz)</b> 60	60	FM Stereo 17.2 dBf, 20.0 μV 75 Ω DIN	17.2 dBf, 20.0 μV 75 Ω DIN
<b>S/N Ratio (METAL, Dolby NR off)</b>	54 dB	58 dB	54 dB	<b>Sensitivity and Impedance</b> Phono MM 2.5 mV (47 kΩ) CD, Tuner, Tape Play 150 mV (25 kΩ) (TONE) DAT/Tape Rec 150 mV (3 kΩ)	2.5 mV (47 kΩ) 150 mV (25 kΩ) (TONE) 150 mV (3 kΩ)	AM 25 μV	25 μV
<b>Heads</b> Rec & Pb. Erase	Special hard permalloy x 1 Ferrite x 1	Special hard permalloy x 2 Ferrite x 1	Special hard permalloy x 1 Ferrite x 1	<b>Tone Controls</b> Bass ± 8 dB at 100 Hz Treble ± 8 dB at 10 kHz Loudness ± 8 dB at 100 Hz/ + 2 dB at 10 Hz	± 8 dB at 100 Hz ± 8 dB at 10 kHz ± 8 dB at 100 Hz/ + 2 dB at 10 Hz	<b>Capture Ratio (FM)</b> 1.5 dB	1.5 dB
<b>Motors</b> DC servo motor x 1	DC servo motor x 1	DC servo motor x 2	DC servo motor x 1	<b>Frequency Response</b> 15 Hz-50 kHz (± 1 dB)	15 Hz-50 kHz (± 1 dB)	<b>Image Rejection Ratio</b> 80 dB	80 dB
<b>Dimensions (W x H x D)</b>	205 x 76 x 278 mm	435 x 121 x 305 mm	155 x 94 x 303 mm	<b>S/N Ratio (IHF-A)</b> Phono MM 80 dB (5.0 mV input) CD 102 dB	80 dB (5.0 mV input) 102 dB	<b>IF Rejection Ratio (FM)</b> 90 dB	90 dB
<b>Weight</b>	2.6 kg	5.2 kg	2.5 kg	<b>Phono Overload (1 kHz)</b> 130 mV RMS	130 mV RMS	<b>S/N Ratio</b> FM Mono (IHF) 73 dB FM Stereo (IHF) 66 dB AM 40 dB	73 dB 66 dB 40 dB
				<b>Dimensions (W x H x D)</b> 435 x 120 x 331 mm	435 x 120 x 331 mm	<b>Harmonic Distortion</b> FM Mono 0.1 % (Wide) FM Stereo 0.2 % (Wide) AM 0.8 %	0.1 % (Wide) 0.2 % (Wide) 0.8 %
				<b>Weight</b> 6.7 kg	6.7 kg	<b>Frequency Response (FM)</b> 30 Hz-15 kHz (± 1.5 dB)	30 Hz-15 kHz (± 1.5 dB)
						<b>FM Stereo Separation</b> 40 dB at 1 kHz	40 dB at 1 kHz
						<b>Dimensions (W x H x D)</b> 435 x 91 x 305 mm	435 x 91 x 305 mm
						<b>Weight</b> 3.6 kg	3.6 kg

SPEAKERS	SKS-101	SL-105	D-052AX	D-032A
<b>Type</b> Dual Full Range, Bass Reflex	Center Speaker Dual Full Range, Bass Reflex	Bass Reflex	2-Way, Bass Reflex	2-Way, Bass Reflex
<b>Woofer</b> Full Range 10 cm Cone x 2	Full Range, Air Suspension Full Range 10 cm Cone	20 cm Cone	13 cm OMF Cone	12 cm Bio-Hybrid Cone
<b>Tweeter</b> —	—	—	2.5 cm Soft-Dome	2.5 cm Soft-Dome
<b>Frequency Response</b> 63 Hz-20 kHz	100 Hz-20 kHz	30 Hz-200 Hz	55 Hz-35 kHz	55 Hz-35 kHz
<b>Crossover Frequency</b> —	—	50 Hz-200 Hz	2.5 kHz	3 kHz
<b>Sensitivity</b> 87 dB/W/m	83 dB/W/m	1.8 V (Speaker input) 59 mV (Line input)	85 dB/W/m	87 dB/W/m
<b>Max. Power</b> 100 W	100 W	60 W	70 W	70 W
<b>Nominal Impedance</b> 6 Ω	6 Ω	5 Ω	4 Ω	6 Ω
<b>Input Impedance</b> —	—	4.7 kΩ/Speaker, 12 kΩ/Line	—	—
<b>Dimensions (W x H x D)</b> 435 x 125 x 165 mm	125 x 217 x 145 mm	235 x 416 x 404 mm	162 x 284 x 232 mm	153 x 259 x 246 mm
<b>Weight</b> 2.6 kg	1.2 kg	12.5 kg	3.9 kg	3.8 kg

SPEAKERS	D-L5	D-N1	SKW-205	D-N5
<b>Type</b> Full Range, Bass Reflex	Full Range, Bass Reflex	2-Way, Bass Reflex	Bass Reflex	2-Way, Bass Reflex
<b>Woofer</b> 8 cm Cone	8 cm Cone	9 cm OMF Cone	20 cm Cone	12 cm OMF Cone
<b>Tweeter</b> —	—	2.5 cm Soft-Dome	—	2.5 cm Balanced-Dome
<b>Frequency Response</b> 125 Hz-25 kHz	63 Hz-35 kHz	63 Hz-35 kHz	30 Hz-200 Hz (Crossover Frequency: MAX)	50 Hz-40 kHz
<b>Crossover Frequency</b> —	—	3 kHz	50 Hz-200 Hz	7.5 kHz
<b>Sensitivity</b> 83 dB/W/m	83 dB/W/m	83 dB/W/m	0.8 V (Speaker level input) 30 mV (Line input)	87 dB/W/m
<b>Max. Power</b> 40 W	30 W	30 W	75 W	70 W
<b>Nominal Impedance</b> 6 Ω	6 Ω	4 Ω	6 Ω	6 Ω
<b>Input Impedance</b> —	—	—	4.7 kΩ/Speaker, 12 kΩ/Line	—
<b>Dimensions (W x H x D)</b> 85 x 120 x 112 mm	165 x 271 x 160 mm	165 x 271 x 160 mm	235 x 455 x 347 mm	147 x 253 x 249 mm
<b>Weight</b> 0.7 kg	1.7 kg	1.7 kg	11.2 kg	2.7 kg

\* Calculated on basis of IHF Dynamic headroom





*Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without prior notice.*

*Some models are available in both black and silver, depending on area where sold. Your authorized Onkyo dealer has details.*

*AC power supply varies on certain models. Check with your local Onkyo dealer for the correct power supply in your area.*

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